



DRAFT

0017

QUALITY CONTROL SUMMARY/ ANALYTICAL RESULTS REPORT REMEDIAL INVESTIGATION 80TH DIVISION RESERVE SITE

Installation Restoration Program Fort Story, Virginia

U. S. Army Transportation Center Fort Eustis, Virginia

and

U.S. Army Corps of Engineers Baltimore District



May 2005

0285-917

DRAFT

QUALITY CONTROL SUMMARY/ ANALYTICAL RESULTS REPORT

REMEDIAL INVESTIGATION 80th DIVISION RESERVE SITE FORT STORY, VIRGINIA

PREPARED FOR:



U.S. ARMY CORPS OF ENGINEERS BALTIMORE DISTRICT BALTIMORE, MARYLAND

and

U.S. ARMY TRANSPORTATION CENTER FORT EUSTIS, VIRGINIA

CONTRACT DACA31-00-D-0043
DELIVERY ORDER No. 20

MAY 2005

MALCOLM PIRNIE, INC. 701 Town Center Drive, Suite 600 Newport News, Virginia 23606

TABLE OF CONTENTS

Draft QCS/AR Report

		<u>Pa</u>	age
EXEC	UTIVE	SUMMARYE	S-1
	ES.1	ObjectivesE	
	ES.2	Summary of Field Investigation ProgramE	S-1
	ES.3	Summary of Analytical DataE	
1.0	INTRO	DDUCTION	1-1
	1.1	Objectives	1-1
	1.2	Site Descriptions and History	1-1
		1.2.1 Facility Description and History	1-1
		1.2.2 Site Description and History	1-3
		1.2.3 Previous Investigations	1-3
	1.3	Report Organization	1-4
2.0	SUMN	MARY OF DAILY QUALITY CONTROL REPORTS	
	2.1	Weather Condition	
	2.2	Subcontractors	
	2.3	Equipment	
	2.4	Field Activities	
	2.5	Health and Safety	2-2
3.0	SUMN	MARY OF FIELD INVESTIGATION PROGRAM	
	3.1	Field Data Quality Objectives	
	3.2	Field Quality Control Program	
	3.3	Field Investigations	
		3.3.1 December 2002 Field Activities	
		3.3.2 January 2003 Field Activities	
		3.3.3 May/June 2004 Field Activities	
	3.4	Field Investigations Conclusions	3-5
4.0	SUMN	MART OF ANALTHOAL DATA	4-1
	4.1	Data Validation	
	4.2	Summary of Analytical Results	4-1
		LIST OF TABLES	
Table No.		Description	
140.		Dooripadii	
3-1 3-2		Field and QA/QC Sample Summary Sample Container, Preservation and Holding Times	

Draft QCS/AR Report

TABLE OF CONTENTS

LIST OF APPENDICES

Appendix	
No.	Description
Α	Daily Quality Control Reports
В	Chain-of-Custody Forms
С	URS Consultants' Data Validation Reports

Draft QCS/AR Report

Malcolm Pirnie, Inc. was contracted by the U.S. Army Corps of Engineers (USACE), Baltimore District to conduct a Remedial Investigation (RI) at the 80th Division Reserve Site (80th DRS) at Fort Story, Virginia under Contract DACA31-00-D-0043.

ES.1 OBJECTIVES

This Quality Control Summary/Analytical Results Report (QCS/ARR) evaluates the quality of the field investigation program and the analytical data produced from the sampling program. The objectives of the quality control (QC) review including the following:

- Review of field investigation procedures and methodologies as discussed in the *Remedial Investigation Work Plan*.
- Review of field data generated and other field-related QC issues.
- Review of analytical data including nonconformance, field investigation program and sampling changes, corrective actions recommended and taken, and a summary of compliance with the data quality objectives (DQOs).

ES.2 SUMMARY OF FIELD INVESTIGATION PROGRAM

A summary of the field QC program and nonconformances and changes related to the field QC program are provided as follows:

- All field DQOs for precision, accuracy, representativeness, completeness and comparability were met during the field investigations at the site through the performance of the following:
 - Collection of the required QA/QC samples were collected.
 - Proper documentation of field activities and analytical requests.
 - Proper and routine calibration and operation of field instrumentation.
 - Consistent sample collection, handling and transportation.
 - Compliance with approved sampling techniques and protocols as established in the RIWP.
- MW-4 was not sampled as it could not be located. However, this is not expected to significantly impact the findings of the RI, as the remainder of the monitoring well network provided sufficient coverage of the site.

ES.3 SUMMARY OF ANALYTICAL DATA

URS Consultants, Inc. (URS) performed a data validation on samples collected at the site for each sample event. The validation was performed in accordance with Region III Modifications to the

EXECUTIVE SUMMARY

Draft QCS/AR Report

National Functional Guidelines for Organic Data Review (September 1994), Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analysis (April 1993), and Region III Innovative Approaches to Data Validation (June 1995).

Based on the data validation results, the data generated for the site were considered acceptable. However, two major problems associated with severe QC exceedances from the analytical methods were encountered, which have a serious effect on the usability of some of the data, for two constituents.

Malcolm Pirnie, Inc. was contracted by the U.S. Army Corps of Engineers (USACE), Baltimore District to conduct a Remedial Investigation (RI) at the 80th Division Reserve Site (80th DRS) at Fort Story, Virginia under Contract DACA31-00-D-0043.

1.1 OBJECTIVES

The work was conducted under the requirements of the Department of Defense (DOD) Installation Restoration Program (IRP), which are consistent with U.S. Environmental Protection Agency (EPA) and Virginia Department of Environmental Quality (VDEQ) guidelines. The regulatory guidelines followed during the RI are set forth in "Guidance on Remedial Investigations and Feasibility Studies under CERCLA". All work was conducted in accordance with the Scopes of Services developed by the USACE with field investigation procedures further developed in the *Final Work Plan, Remedial Investigation* dated November 2002, and approved by the USACE, Fort Eustis, VDEQ.

This Quality Control Summary/Analytical Results Report (QCS/ARR) evaluates the quality of the field investigation program and the analytical data produced from the sampling program. The objective of the quality control (QC) review of the field investigation program is to evaluate the program in order to assess its effectiveness in producing data quality sufficient in evaluating site conditions and risks. This evaluation includes a review of field investigation procedures and methodologies as discussed in the *Final Field Investigation and Chemical Data Acquisition Plans* (contained in the afore mentioned Work Plan), field data generated and other field-related QC issues, as well as the Final Generic Quality Assurance Project Plan, Installation Restoration Program, for Fort Eustis, Virginia, dated September 2002. The analytical data is also evaluated and summarized in this report through a review of nonconformance, field investigation program and sampling changes, corrective actions recommended and taken, and a summary of compliance with the data quality objectives (DQOs).

1.2 SITE DESCRIPTION AND HISTORY

1.2.1 Facility Description and History

Fort Story is located in southeastern Virginia within the city of Virginia Beach, Virginia. Fort Story occupies an area of approximately 1,451 acres and is situated on Cape Henry which roughly divides the waters of the Chesapeake Bay to the north and the Atlantic Ocean to the east.

On 10 March 1914, the Virginia General Assembly ceded 343.1 acres, located at Cape Henry in Princess Anne County, to the U.S. Government "to erect fortifications and for other military purposes." On 14 June 1914, the U.S. District Court acquired title for the land by condemnation proceedings against the Cape Henry Syndicate and other landowners in the Cape Henry subdivision. War Department General Order No. 31, dated 24 July 1916, named this newly acquired tract of land Fort Story in honor of Major General John Patton Story.

Draft QCS/AR Report

Construction of powder magazines and projectile rooms was initiated during the latter part of 1916 and by February 1917, construction of the 16-inch howitzer fortifications had begun. Also, during February 1917, the 2nd and 5th Coast Artillery Companies established the military garrison at Fort Story. From 1917 through 1925, the installation continued to develop as a small coastal artillery garrison consisting of little more than its armament. The only land expansion that occurred during the period was the acquisition of 9.38 acres from the Norfolk and Southern Railway Company in March 1917.

During World War I, Fort Story was integrated into the Coast Defenses of Chesapeake Bay that included Fort Monroe (Headquarters) and Fort Wool (located at the east entrance of the Hampton Roads Bridge Tunnel). On 9 June 1925, Fort Story was designated a Harbor Defense Command by War Department General Order No. 13, but the change in designation added little to the dwindling post-war activity of the garrison.

As World War II approached, Fort Story began an extensive development. Many of the facilities that exist at Fort Story today were constructed at that time, and the installation increased in size to 1,439 acres. An additional 11.82 acres were acquired in 1963 that increased its size to its present 1,451 acres. In the 1940s, the construction included temporary artillery batteries, theater, chapel, fire station, mess halls, barracks, Officer and NCO clubs, shops, additional powder magazines and projectile rooms, six underground storage bunkers and 19 seacoast searchlights.

In December 1941, the Headquarters of the Harbor Defense Command was moved from Fort Monroe to Fort Story. Two harbor defense installations were added to the network in 1941; Fort John Curtis and a mine base. On March 1, 1944, the Chesapeake Bay sector of the Harbor Defenses was inactivated, and control passed to Headquarters, Southeastern Sector, Eastern Defense Command.

By September 1944, Fort Story began a transition from a heavily fortified coast artillery garrison to a convalescent hospital. At the time of its closing on 15 March 1946, the hospital had accommodated over 13,472 patients. At the closing of World War II, Fort Story again changed missions. It assumed the role that it still has today, to train units and individuals for amphibious operations. Fort Story was officially transferred to the Transportation Corps in July 1948 as a subpost of the Transportation Training Command, Fort Eustis, Virginia.

Fort Story trains army personnel in amphibious and Logistics Over-the-Shore (LOTS) operations. Fort Story is the only available facility that has the necessary natural terrain features and beaches, sand, surf, variable tide conditions (bay and ocean) and hinterlands, all of which are normally experienced by amphibious and LOTS operations. In addition, Fort Story contains beach training areas, tactical training areas and a series of trails throughout the installation. The deep water ship anchorage, off-road driving areas and soil of sufficient bearing strength for the heavy vehicles are indispensable in amphibious training, LOTS training and the testing of new equipment, doctrines and techniques.

1.2.2 Site Description and History

The 80th DRS area contains a 50-foot by 70-foot concrete pad surrounded by asphalt on the west, south, and east sides. The north side is bordered by sand that was used as the DRS staging area. Over time, this staging area apparently became contaminated with by-products (primarily petroleum products) of the washing and maintenance operations. A 1,000 gallon used oil UST, 250-gallon antifreeze aboveground storage tank (AST), and a former drum storage area were located west of the wash pad. The location of the 80th DRS is presented on Figure 1-1 in the RI Report.

1.2.3 Previous Investigations

A summary of previous investigations and studies conducted at this site is provided below.

Final Site Assessment Report, Montgomery-Watson, May 1994

Montgomery Watson conducted an investigation from February to May 1994 to evaluate the presence of possible soil contamination in the LARC staging area of the site and around the existing concrete pad. Elevated levels of total petroleum hydrocarbons (TPH) – heavy oils and lead were detected in the shallow soils adjacent to the former drum storage area, tank area, and wash pad area. Based on the limited vertical extent of contaminated soil, excavation of soil and off-site treatment and disposal was feasible.

Site Characterization Report, Environmental Restoration Company (ERC), June 1994

ERC conducted a site characterization of the site in 1994. Based on the site characterization, two areas of soil contamination and one area of groundwater contamination were identified at the site. TPH and lead contamination was discovered in the shallow soil of the LARC staging area. These contaminants are most likely the result of bilge water discharge and sandblasting. TCE and PCE were detected in monitoring well MW-4.

Removal Action Final Report, IT Corporation, August 1995.

From April through July 1995, IT Corporation completed a removal action of contaminated soil from the LARC staging area and from the tank area. Approximately 3,500 tons of TPH-contaminated soils and 30 tons of PCE-contaminated soil were excavated from the site and transported off-site for thermal desorption. Significant quantities of contaminated soils remain in both areas. The areas were backfilled with clean fill.

1.3 REPORT ORGANIZATION

A summary of the organization format of this QCS/ARR is provided as follows:

- Section 1.0 addresses the Introduction to the report, discusses the project objectives, provides background information including a site description and history and provides a discussion of previous investigations and provides the report organization.
- Section 2.0 provides a Summary of Daily Quality Control Reports for the site including a
 discussion of the weather conditions, subcontractors, equipment used and health and safety
 issues.
- Section 3.0 provides a Summary of the Field Investigation Program including the quality control program and conformance with procedures in the Final Work Plan.
- Section 4.0 provides a Summary of Analytical Data including a summary of results and data validation results.
- Appendices:
 - Appendix A Daily Quality Control Reports
 - Appendix B Chain-of-Custody Forms
 - Appendix C Data Validation Reports

Draft QCS/AR Report

Daily quality control reports (DQCRs) were prepared daily for the field investigations at the 80th DRS at Fort Story, Virginia. These reports may include summarized data such as the following:

- Weather conditions
- Subcontractors on-site
- Equipment used
- Work performed at each of the sites
- Quality control activities
- Health and safety levels and activities
- Problems encountered and corrective actions taken
- Other special information
- Planned activities for the following day

A copy of the DQCRs are provided in **Appendix A** of this report. Two field investigation events were conducted at the site as part of the RI. The initial field activities were started at the site on December 3, 2002 with the sampling of site soil and monitoring well installation, and terminated on January 9, 2003 with the completion of groundwater sampling. The second event included the installation of two additional monitoring wells on May 17, 2004 and followed by their sampling on June 14 through 17, 2004.

A summary of some of the significant data provided on the DQCRs is provided in the following sections.

2.1 WEATHER CONDITIONS

In general, weather did not adversely impact field investigations for the site.

2.2 SUBCONTRACTORS

Numerous subcontractors were used to conduct the field activities and to assist in data generation for the 80th DRS at Fort Story including the following:

Subcontractor	<u>Task</u>
Fishburne Drilling, Inc. Patton Harris Rust & Associates CompuChem	Monitoring well installation and boring advancement Site surveying for monitoring wells Chemical analysis of environmental samples
URS Consultants, Inc.	Data validation

Any discrepancies, problems and corrective actions associated with analytical data are discussed in detail in Section 4.0 of this report.

2.3 EQUIPMENT

Equipment was used for various functions during the field investigation including water quality measurements (i.e., pH, conductivity, temperature), collection of water level data, and other field monitoring tasks.

Field monitoring instruments such as the water quality meter and the photoionization detector (PID) were calibrated at the start of the day's activities and additionally if indications of instrument readings being out of calibration were present. Minor problems were encountered with the operation of the PID. In those instances, any olfactory observations were noted.

2.4 FIELD ACTIVITIES

A detailed discussion of the field investigation conducted and quality control activities performed as part of this investigation is provided in Section 3.0 of this report.

2.5 HEALTH AND SAFETY

Health and safety procedures used to protect personnel during the field investigations were in compliance with the protocols established in the *Site Safety and Health Plan (SSHP)* and Addendum approved by the USACE. All personnel conducting field activities were required to read and understand the *SSHP* and Addendum and sign the acknowledgements page prior to conducting any field operations.

A kickoff meeting prior to initiating of the field investigation was conducted that discussed all health and safety aspects of the project. Daily tailgate meetings were conducted at the initiation of each day to discuss health and safety issues.

All field activities at the site were conducted in Level D personal protective equipment (PPE). PPE used during the field investigation included latex gloves during sampling activities, steel-toed/shanked work boots and hard hats (drilling activities only). No PPE upgrades were required during the field investigation.

This section summarizes the field investigation's quality control (QC) program and conformance with the USACE-approved procedures established in the Field Investigation Plan (FIP) and Chemical Data Acquisition Plan (CDAP) including analytical requirements, sampling locations and methodologies, and field documentation requirements for the site. The activities commenced in December 2002 to investigate potential contamination in soils and groundwater and concluded in June 2004 with a second groundwater sampling event.

3.1 FIELD DATA QUALITY OBJECTIVES

The remedial investigation field program for the 80th DRS was evaluated on the project field DQOs. These are quantitative and qualitative statements used to assess the quality of the data required. Field DQOs were used to measure the performance of the field investigation program and their impact on the final results. The evaluation of field DQOs with respect to precision, accuracy, representativeness, completeness and comparability criteria is presented as follows:

- Precision. In terms of the precision DQO, the consistent use of sample collection, documentation, handling and transportation procedures as described in the CDAP section of the Remedial Investigation Work Plan (RIWP) during all sampling activities provided data of acceptable quality. Field measurements were made to the required levels of precision as described in Section 5.1 of the RIWP. Field measurement equipment was properly calibrated and the field investigation program properly documented. In addition, sufficient MS/MSD (one per 20 samples per matrix type) and duplicate samples (at least 10 percent of samples) were collected from the sediment, soil, and groundwater to evaluate precision.
- Accuracy. In terms of the accuracy DQO, a sufficient number of field equipment rinsate samples (one per sampling equipment type per day) and trip blank samples (one trip blank for each cooler containing aqueous volatile organic samples) were collected to determine whether contamination was introduced from outside the sample matrix. In addition, the field logbooks and sampling forms were completed accurately. Samples were located within one foot of locations described in the FIP, unless otherwise noted in Section 3.3 of this report. Field monitoring equipment was calibrated properly pursuant to the requirements of Section 5.1.1 of the RIWP to ensure accurate measurements were taken.
- Representativeness. The representative DQO was met by collecting data that were representative of site conditions. Samples were collected from all media potentially impacted and from designated sample locations, which were upgradient, on-site, and downgradient. This field DQO was achieved by using procedures that maintain the sample, as close as possible, it its original condition when contained. Careful preservation and handling of field samples contributed to acceptable field representativeness.
- Completeness. The completeness of the QC data was evaluated by comparing the number of QC samples collected to the number of QC samples required as listed by the RIWP. A

completeness goal of 90 percent was established. All field documentation such as sampling forms and the field logbooks were properly completed. In addition, Daily Quality Control Reports were completed every day that field work was conducted.

 Comparability. The comparability DQO was achieved by using sampling techniques and equipment that were based on USEPA-accepted methods, follow standard operating procedures as stated in the FIP and CDAP and that produced consistent data and measurement.

3.2 FIELD QUALITY CONTROL PROGRAM

The objective of the field QC program was to collect sufficient QC samples for each sample matrix at the site. QC procedures utilized during the field investigations to support an assessment of the analytical data generated included the collection and analysis of numerous QC samples including duplicates, trip blanks, equipment rinsates, matrix spike/matrix spike duplicates (MS/MSD), and field blanks. A summary of the samples submitted to off-site laboratories for the field investigation is provided in **Table 3-1** for the site.

All samples were collected at the site in containers as specified in **Table 3-2**. Containers and coolers were provided by the analytical laboratory, CompuChem. Information including container types required for each analysis and preservatives placed in containers was provided by CompuChem.

CompuChem also provided Chain-of-Custody (COC) records used to track samples from the site. A copy of the COC was kept by the sampling team prior to shipment to the laboratory. Upon receipt of the coolers, the samples were logged in and the COC signed by the laboratory's sample custodian. A copy of the COC forms is provided in **Appendix B**.

3.3 FIELD INVESTIGATIONS

The following sections discuss the QC program at the site for each sample matrix for the field events (December 2002, January 2003, and June 2004) including an assessment of the number of QC samples collected and a discussion of nonconformances and corrective actions taken, if any, for those nonconformances.

3.3.1 December 2002 Field Activities

3.3.1.1 Soil Sampling

Sampling Procedures

Thirty soil samples from 10 locations were collected using a split spoon sampler from a drill rig at depths of 0 to 6 inches below land surface (BLS), 1 to 3 feet BLS, and 4 to 6 feet BLS throughout the

site to assess the nature of contamination and for use in the subsequent risk assessment. Fifteen of the soil samples were collected from the locations of the five newly installed monitoring wells (MW-7, MW-8, MW-9, MW-10, and MW-11). Nine samples from three borings (SB-3, SB-4, and SB-5) were collected from locations surrounding the area that was removed due to PCE contamination (Area B) as identified in the IT Final Report. In addition, three soil samples were collected from a soil boring (SB-2) south of the former wash pad and another three soil samples were collected from a boring (SB-1) east of the former wash pad. Sampling and equipment decontamination procedures utilized during the field investigation are described in Section 2.0 of the RI Report. These procedures were consistent with the requirements established in the RIWP.

The soil samples were analyzed off-site for TCL VOCs, TCL semivolatile organics (SVOCs), TCL pesticides/PCBs, total organic carbon (TOC), and TAL metals.

Nonconformances and Corrective Actions

No significant field nonconformances or changes to the approved RIWP were noted during the field investigation.

3.3.1.2 Monitoring Well Installation

Installation Procedures

Five groundwater monitoring wells were installed at the site. Monitoring well installation, well development, as well as equipment decontamination procedures utilized during the field investigation are described in Section 2.0 of the RI Report. These procedures were consistent with the requirements established in the RIWP.

Nonconformances and Corrective Actions

No significant field nonconformances or changes to the approved RIWP were noted during the field investigation.

3.3.2 January 2003 Field Activities

3.3.2.1 Groundwater Sampling

Sampling Procedures

Samples from the five newly installed monitoring wells, and from five of the six existing monitoring wells were analyzed off-site for VOCs, SVOCs, total and dissolved metals, TSS, and TDS. Sampling and equipment decontamination procedures utilized during the field investigation are described in Section 2.0 of the RI Report. These procedures were consistent with the requirements established in the RIWP.

Nonconformances and Corrective Actions

Field nonconformances and changes to the approved RIWP, corrective actions, and impacts on data quality for monitoring well installation are summarized as follows:

 MW-4 was not sampled as it could not be located. However, this is not expected to significantly impact the findings of the RI, as the remainder of the monitoring well network provided sufficient coverage of the site.

3.3.3 May/June 2004 Field Activities

3.3.3.1 Monitoring Well Installation

Installation Procedures

Two groundwater monitoring wells were installed at the site. Monitoring well installation, well development, as well as equipment decontamination procedures utilized during the field investigation are described in Section 2.0 of the RI Report. These procedures were consistent with the requirements established in the RIWP.

Nonconformances and Corrective Actions

No significant field nonconformances or changes to the approved RIWP were noted during the field investigation.

3.3.3.2 Groundwater Sampling

Sampling Procedures

Samples from the two newly installed monitoring wells, and from 10 existing monitoring wells were analyzed off-site for VOCs. Sampling and equipment decontamination procedures utilized during the field investigation are described in Section 2.0 of the RI Report. These procedures were consistent with the requirements established in the RIWP.

Nonconformances and Corrective Actions

No significant field nonconformances or changes to the approved RIWP were noted during the sampling event.

3.4 FIELD INVESTIGATIONS CONCLUSIONS

A summary of the field QC program and nonconformances and changes related to the field QC program are provided as follows:

- All field DQOs for precision, accuracy, representativeness, completeness and comparability were met during the field investigations at the site through the performance of the following:
 - Proper documentation of field activities and analytical requests.
 - Proper and routine calibration and operation of field instrumentation.
 - Consistent sample collection, handling and transportation.
 - Compliance with approved sampling techniques and protocols as established in the FIP, CDAP and Work Plan.

December 2002 Field Activities Summary.

• No significant field nonconformances or changes to the approved RIWP were noted during the field investigation.

January 2003 Field Activities Summary:

 MW-4 was not sampled as it could not be located. However, this is not expected to significantly impact the findings of the RI, as the remainder of the monitoring well network provided sufficient coverage of the site.

June 2004 Field Activities Summary:

• No significant field nonconformances or changes to the approved RIWP were noted during the field investigation.

SUMMARY OF ANALYTICAL DATA

This section summarizes the analytical data for field and quality control (QC) samples collected at the 80th DRS during the sampling activities conducted in December 2002/January 2003 and June 2004. The sampling and analysis program was conducted in accordance with the quality assurance requirements presented in the Remedial Investigation Work Plan (RIWP).

4.1 DATA VALIDATION

URS Consultants, Inc. performed a data validation on samples collected at the site for each sample event. The validation was performed in accordance with Region III Modifications to the National Functional Guidelines for Organic Data Review (September 1994), Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analysis (April 1993), and Region III Innovative Approaches to Data Validation (June 1995). URS's data validation report for the site data for each event are provided in **Appendix C**, which provide a detailed analysis and summary of the quality of the data generated at the site.

4.2 SUMMARY OF ANALYTICAL RESULTS

4.2.1 December 2002/January 2003 Sampling Event

Based on the data validation results, the data generated for the site were considered acceptable. However, two major problems associated with severe QC exceedances from the analytical methods were encountered, which have a serious effect on the usability of some of the data. The major problems and their overall impact on the data usability are discussed below.

- Major Problem 1: The VOC continuing calibrations (CCAL) associated with the groundwater samples (plus field QC blank) exhibited a low (i.e., <0.05) relative response factor for acetone. The non-detect acetone results for all groundwater samples (except GW-MW-117) and field QC blanks were rejected ("R"), while the detected acetone result for GW-MW-117 was qualified as biased low ("L").
 - o Impact on RI Outcome: Minimal. The Method Detection Limit and Sample Quantitation Limit for Acetone are two to three orders of magnitude below screening criteria. Furthermore, acetone was not a target constituent of concern prior to beginning the investigation.
- Major Problem 2: The SVOC CCAL associated with several soil and groundwater samples
 exhibited a low (i.e., <0.05) relative response factor for atrazine. The non-detect atrazine
 results for all affected soil, groundwater, and equipment rinsate blank samples were rejected
 ("R").
 - o *Impact on RI Outcome: Minimal.* Atrazine was not a target constituent of concern prior to beginning the investigation.

SUMMARY OF ANALYTICAL DATA

In addition, a number of minor problems, which reflect biases identified during the data review were encountered. These biases resulted in the qualification of sample results as estimated, biased low, or biased high. However, these biases had little to no impact on data usability. A detailed summary of the minor problems is provided in **Appendix C**.

4.2.2 June 2004 Sampling Event

Based on the data validation results, the data generated for the site were considered acceptable. However, one major problem associated with severe QC exceedences from the analytical methods was encountered, which have a serious effect on the usability of some of the data. The major problem and its overall impact on the data usability are discussed below.

- Major Problem: The VOC continuing calibration (CCAL) performed on 6/23/04 exhibited a
 low (i.e., <0.05) relative response factor for acetone. The non-detect acetone results for all
 groundwater samples (except for MW-03 and MW-07 which were not associated with this
 CCAL) were rejected ("R").
 - o Impact on RI Outcome: Minimal. The Method Detection Limit and Sample Quantitation Limit for Acetone are two to three orders of magnitude below screening criteria. Furthermore, acetone was not a target constituent of concern prior to beginning the investigation.

In addition, a number of minor problems, which reflect biases identified during the data review were encountered. These biases resulted in the qualification of sample results as estimated, biased low, or biased high. However, these biases had little to no impact on data usability. A detailed summary of the minor problems is provided in **Appendix C**.

QCS/AR Report 80th Division Reserve Site Fort Story, Virginia



TABLE 3-1 ANALYTICAL SUMMARY

		Analysis								
Sample Type	Sample ID	TCL VOCs	TCL SVOCs	TCL Pest/ PCBs	Total TAL Metals	Dissolved TAL Metals	Total Dissolved Solids	Total Suspended Solids	Total Organic Carbon	рН
ECEMBER 2002 FIE	LD INVESTIGATIONS								***	
	SS-SB01-0	Х	X	Х	Х				Х	Х
	SS-SB02-0	Х	Х	Х	Х				Х	X
	SS-SB03-0	X	X	Х	Х				X	X
Surface Soil	SS-SB04-0	X	Х	Х	X				Х	Х
	SS-SB05-0	X	Х	Х	Х				Х	X
	SS-MW07-0	Х	Х	X	Х				Х	Х
	SS-MW08-0	Х	Х	Х	Х				Х	Х
	SS-MW09-0	X	Х	Х	Х				Х	Х
	SS-MW10-0	X	Х	Х	Х				Х	Х
	SS-SB01-1	Х	Х	Х	Х				Х	X
	SS-SB01-4	Х	Х	Х	Х				Х	Х
	SS-SB02-1	Х	Х	Х	Х				Х	Х
	SS-SB02-4	Х	Х	Х	Х		,		Χ	Х
	SS-SB03-1	X	Х	Х	Х				Х	Х
	SS-SB03-4	X	Х	Х	Х				Х	Х
	SS-SB04-1	Х	X	X	Х				Х	Х
	SS-SB04-4	Х	Х	Х	Х				Х	Х
	SS-SB05-1	X	Х	Х	Х				Х	Х
0	SS-SB05-4	Х	Х	Х	Х	<u> </u>			Х	X
Subsurface Soil	SS-MW07-1	X	Х	X	Х				Х	Х
	SS-MW07-4	Х	Х	Х	Х				Х	X
	SS-MW08-1	X	Х	X	Х				Х	X
	SS-MW08-4	X	Х	Х	Х				Х	X
	SS-MW09-1	X	Х	Х	Х				Х	Х
	SS-MW09-4	X	Х	X	X				Х	X
	SS-MW10-1	X	Х	Х	X				X	Х
	SS-MW10-4	X	Х	Х	X				Х	Х
	SS-MW11D-1	X	X	Х	X				Х	X
	SS-MW11D-4	X	X	X	X				Х	X

TABLE 3-1 ANALYTICAL SUMMARY

ľ		Analysis								
Sample Type	Sample ID	TCL VOCs	TCL SVOCs	TCL Pest/ PCBs	Total TAL Metals	Dissolved TAL Metals	Total Dissolved Solids	Total Suspended Solids	Total Organic Carbon	рН
ANUARY 2003 FIELD	INVESTIGATIONS							140		
	GW-MW01	Х	Х	Х	Х	X	X	Х		
	GW-MW02	X	Х	Х	Х	X	Х	Х		
	GW-MW03	Х	Х	Х	X	Х	Х	Х		
	GW-MW05	Х	Х	Х	Х	Х	Х	Х		
Groundwater	GW-MW06	X	X	Х	X	X	Х	Х		
Orodridwater	GW-MW07	X	Х	Х	Х	Х	Х	Х		
	GW-MW08	Х	Х	Х	Х	X	Х	Х		
	GW-MW09	X	Х	Х	Х	Х	Х	Х		
	GW-MW10	X	Х	Х	Х	Х	Х	Х		
	GW-MW11	Х	Х	Х	Х	Х	Х	Х		
JNE 2004 FIELD INVI	ESTIGATIONS			and the		1000				
	GW-MW01	X								
Ī	GW-MW02	Х								
	GW-MW03	Х								-
	GW-MW05	Х								
Ţ	GW-MW06	X								
Groundwater	GW-MW07	Х								
Gloundwater	GW-MW08	Х								
	GW-MW09	Х								
	GW-MW10	Х								
	GW-MW11	Х								
Ţ	GW-MW12	X			-					
Ī	GW-MW13	X							-	

TABLE 3-2
CONTAINER TYPE AND HOLDING TIME REQUIREMENTS

ANALYSIS	CONTAINER	PRESERVATION	HOLDING TIME
SOIL			the state of the s
TAL Metals	500-ml plastic	Cool to 4°C	6 months
TCL VOCs	125-ml amber glass with teflon-lined lid & 3 En Core Samplers	Cool to 4°C	2 days/14 days /40 days (1)
TCL SVOCs	500-ml glass with Teflon-lined lid	Cool to 4°C	14 days/40 days (2)
TCL Pest/PCBs	500-ml glass with Teflon-lined lid	Cool to 4°C	14 days/40 days (2)
Total Organic Carbon	250-ml plastic	Cool to 4°C	28 days
GROUNDWATER			and the second second
TAL Metals (Total & Dissolved)	250-ml plastic	one HNO_3 to $pH < 2$ Cool to $4^{\circ}C$	6 months
Mercury (Total & Dissolved)	500-ml plastic	one HNO_3 to $pH < 2$ Cool to $4^{\circ}C$	28 days
TCL VOCs	3 - 40 ml glass vials with septa caps	HCl or NaHSO₄ to pH < 2 Cool to 4°C	7 days/40 days (3)
TCL SVOCs	2 - 1 liter amber glass	Cool to 4°C	7 days/40 days (3)
TCL Pest/PCBs	2 - 1 liter amber glass	Cool to 4°C	7 days/40 days (3)
TSS	500-ml plastic	Cool to 4°C	7 days
TDS	TDS 500-ml plastic		7 days
IDW (Soil)			
TCLP Metals, SVOCs, Pesticides	500-ml plastic	Cool to 4°C	14 days/40 days (2)
TCLP VOCs	125-ml amber glass with Teflon-lined lid	Cool to 4°C	14 days/40 days (2)
PCBs	250-ml amber glass with Teflon-lined lid	Cool to 4°C	14 days/40 days (2)
TPH-DRO	250-ml amber glass with Teflon-lined lid	Cool to 4°C	14 days/40 days (2)
TPH-GRO	125-ml amber glass with teflon-lined lid & 3 En Core Samplers	Cool to 4°C	14 days/40 days (2)
Reactivity (cyanide and sulfide)	250-ml plastic	Cool to 4°C	28 days

TABLE 3-2
CONTAINER TYPE AND HOLDING TIME REQUIREMENTS

ANALYSIS	CONTAINER	PRESERVATION	HOLDING TIME
IDW (Water)	The state of the s		A deposit of the second
TCLP Metals	500-ml plastic	Cool to 4°C	14 days/180 days (3)
TCLP Mercury	500-ml plastic	Cool to 4°C	14 days/28 days (4)
TCLP VOCs	3 - 40 ml glass vials with septa caps	Cool to 4°C	14 days/14 days (5)
TCLP SVOCs	2 - 1 liter amber glass	Cool to 4°C	14 days/40 days (2)
TCLP Pesticides	2 - 1 liter amber glass	Cool to 4°C	14 days/40 days (2)
TCL PCBs	2 - 1 liter amber glass	Cool to 4°C	14 days/40 days (2)
TPH DRO	2 - 1 liter amber glass	Cool to 4°C	14 days/40 days (2)
TPH GRO	3 - 40 ml glass vials with septa caps	HCl or NaHSO₄ to pH < 2 Cool to 4°C	14 days/40 days (2)
Reactivity (cyanide and sulfide)	250-ml plastic	Cool to 4°C	14 days
Corrosivity	250-ml glass	Cool to 4°C	ASAP
lgnitability	250-ml glass	Cool to 4°C	None

Notes:

- (1) 14 days/40 days Holding times are 2 days for extraction from En Cores, 14 days for extraction glass jars, and 40 days for analysis.
- (2) 14 days/40 days Holding times are 14 days for extraction and 40 days for analysis.
- (3) 14 days/180 days Holding times are 14 days for TCLP extraction and 180 days for analysis.
- (4) 14 days/28 days Holding times are 14 days for TCLP extraction and 28 days for analysis.
- (5) 14 days/14 days Holding times are 14 days for TCLP extraction and 14 days for analysis.

Appendix A Daily Quality Control Reports

QCS/AR Report 80th Division Reserve Site Fort Story, Virginia



Date 12 / 53 / 02

MALCOLM PIRNIE, INC. DAILY QUALITY CONTROL REPORT

Оау	S	М	Т	W	тн	F	S
			X				

USACE PM:	Weather	Bright Sun	Clear	Overcast	Rain	Snow
Malcolm Pirnie PM: _ Tony Pace	Temperature	< 32	32 - 50	50 - 70	70-85	>85
Project: 80th Division Reserve Site Malcolm Pirnie Job No 0285-917	Wind	Still	Moderate	High	REPOR	RT NO.
USACE Contract No. DACA31-00-D-0043 Delivery Order No	Humidity	Dry	Moderate	Humid		

UBCONTRACTORS ON-SITE:
Fishburne Drilling
QUIPMENT ON SITE:
Drill rig
PID
ORK PERFORMED (INCLUDING SAMPLING):
WELL INSTALLATION
Stal Sampling
Soil Characterization

FIGURE 2 (CONT.)		
Project: 80th Division Reserve Site	Report No.	
Malcolm Pirnie Project No 0285-917	Date	12/03/02
QUALITY CONTROL ACTIVITIES (INCLUDING FIELD CALIBRATIONS)): 	· · · · · · · · · · · · · · · · · · ·
PID: 0.0 freshair 99.3 Isummy Lone		
11:2 ROBOLADO		
NEALTH AND CAFETY LEVEL CAND ACTIVITIES.		
HEALTH AND SAFETY LEVELS AND ACTIVITIES:		
Levol ()	 .	
	·- ·	
	· · · · · · · · · · · · · · · · · · ·	
PROBLEMS ENCOUNTERED/CORRECTIVE ACTION TAKEN:		
- Drive rig had to avoid fence, overhead utility	hres	·
- PID fuited @ nw up ~ mr recharge) 	
no odors detected as samples were	www.	
- Throng house to use me kit to instruct	HAMADON (May	
SPECIAL NOTES:		

BY Gerlyn T. Perlas TITLE Engineer

TOMORROW'S EXPECTATIONS:

Page 2 of 2

	1	1	
Date	12 /	/ 02	

MALCOLM PIRNIE, INC. DAILY QUALITY CONTROL REPORT

Day	S	М	Т	w	TH	F	S		
				\times					
				_	1	1			,
Weather	Brigh	t Sun	C	ea	Over	cast	Ra	iin	Snow
Temperature	<;	32	82	50	50 -	70	70-	85	>85
Wind	St	ill	Mod	erate	Hig	F	RI	PO	RT NO.

Humid

Moderate

Humidity

USACE PM: _______Fort Story Rep: _______PM**cmm**. Malcolm Pirnie PM: _ Tony Pace

Project: ______ 80th Division Reserve Site
Malcolm Pirnie Job No. _______ 0285-917
USACE Contract No. DACA31-00-D-0043
Delivery Order No. _______

SUBCONTRACTORS ON-SITE:	
Fishburne Drilling	
EQUIPMENT ON SITE:	
Drill rig	,
CII	
WORK PERFORMED (INCLUDING SAMPLING):	
Soil sampling	
soil characterization	

FIGURE 2 (CONT.) Project: _____ 80th Division Reserve Site Report No. 12/ 4 /02

	Date 12 / 4 / 02
CONTROL ACTIVITIES (INCLUDING FIELD CALLIDDATIC	· · · · · · · · · · · · · · · · · · ·
QUALITY CONTROL ACTIVITIES (INCLUDING FIELD CALIBRATIC	DNS):
PID TYCSH air: 0.0 yapan ISOBUTYLENE: 100 yapan	
130 my y cre - 100 pm	
	· · · · · · · · · · · · · · · · · · ·
AND ACTIVITIES	
HEALTH AND SAFETY LEVELS AND ACTIVITIES:	
Level D	
	
PROBLEMS ENCOUNTERED/CORRECTIVE ACTION TAKEN:	
	and bounded I making.
Oping the feet of	and the state of t
I WILL HAWLE TO MET THE BEYOUTH MICHALLY	uz usndumi mali alitabaz,
- Sand was too loose in drea sumound will have to use an ATV to install no to use atV.	we. Hishburne mil arrange
to use ATV.	w. Hishburne mil arrange
to use ATV.	M. Hishburne Mil arrange
to use ATV.	M. Mishbure Mil arrange
to use ATV.	w. Mishbure mil arrange
to use ATV.	me. Hishburre mil arrange
to use ATV. SPECIAL NOTES:	w. Mishbure mil arrange
to use AIV.	me. Hishburge mil arrange
to use AIV.	M. Mishbure Mil arrange
to use AIV.	me. Hishburge mil arrange
to use AIV.	min arrange
SPECIAL NOTES: TOMORROW'S EXPECTATIONS:	w. pishbure mil arrange
SPECIAL NOTES: TOMORROW'S EXPECTATIONS:	w. pishbure mil arrange
SPECIAL NOTES: TOMORROW'S EXPECTATIONS:	w. pishbure mil arrange
SPECIAL NOTES: TOMORROW'S EXPECTATIONS:	w. pishbure mil arrange

BY Gerlyn T. Perlas TITLE Engineer

Page 2 of 2

IGURE 2		Ε	Date	12/5	/ 02	
MALCOLM PIRNIE, INC. DAILY QUALITY CONTROL REPORT	Day	S M	T W	TH F	s	
JSACE PM:	Weather	Bright Sun	Clear	Overcast (Rain	Snow
Malcolm Pirnie PM: _ Tony Pace	Temperature	< 32	62 - 50	50 - 70		>85
Project: 80th Division Reserve Site Malcolm Pirnie Job No 0285-917 / 0285-900	Wind	Still	Moderate	High	REPOI	RT NO.
JSACE Contract No. DACA31-00-D-0043 Delivery Order No	Humidity	Dry	Moderate	Humid		

SUBCONTRACTORS ON-SITE:
Fishburne Drilling
EQUIPMENT ON SITE:
Drill rig
910
WORK PERFORMED (INCLUDING SAMPLING):
WELL PEVELOPMENT
well installation
SOIL CHARACTORIZATION
,

FIGURE 2 (CONT.)	
Project:80th Division Reserve Site	Report No.
Malcolm Pirnie Project No 0285-917	Date 12 / 5 / 02
QUALITY CONTROL ACTIVITIES (INCLUDING FIELD CALIBR	ATIONS):
Pro Fresh air: 0.0 yrm Formityline: 100 yrm	
Isvantyline: 100 yram	
<u> </u>	
HEALTH AND SAFETY LEVELS AND ACTIVITIES:	
leva o	
PROBLEMS ENCOUNTERED/CORRECTIVE ACTION TAKEN:	100 A Language 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 2 1 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 2 1 1 1 2 1 1 2 1 1 1 1 2 1
- Drillers did not arrive burtil 12 pm (ori - Drill rig not functioning when mobed of to bring anothera drill nig to finis	A THE COUNTY CALLED IN SIGE)
While has a way and and and the barry	1. in Childhad
to print and not not and not in finis	N INSTANCIONAL
SPECIAL NOTES:	
or Edite Notes.	
TOMORROW'S EXPECTATIONS:	
Finish installing monitoring wells	
Litter One Liviliments of Incomitation of Assess	

Page 2 of 2

BY Gerlyn T. Perlas TITLE Chance

Date	12 /	Q	/ 02	

TH F

MALCOLM PIRNIE, INC. DAILY QUALITY CONTROL REPORT

Bright Sun Clear Overcalst Snow Weather 50 - 70 < 32 70-85 >85 Temperature Project: ____ 80th Division Reserve Site /LARC 60 Malcolm Pirnie Job No. ____ 0285-917 High REPORT NO. Still Moderate Wind USACE Contract No. DACA31-00-D-0043 Moderate Humid Humidity Delivery Order No. _____

Day

M T W

SUBCONTRACTORS ON-SITE:
Fishburne Drilling
QUIPMENT ON SITE:
Drill rig
PIO
VORK PERFORMED (INCLUDING SAMPLING):
Soil Characterization
WELL INSTALLATION

Project: 80th Division Reserve Site / LATC 60	Report No.		
		12/ 6	/ 02
Malcolm Pirnie Project No0285-917	_		
QUALITY CONTROL ACTIVITIES (INCLUDING FIELD CALIBRATIONS):		
DID: POESHAIR - O.D DAM			
PID: Prestair - 0.0 ppm Isonutione - 10/ppm			
HEALTH AND SAFETY LEVELS AND ACTIVITIES:			
Level D			
			
		<u> </u>	
	<u> </u>		
TAKEN:			
PROBLEMS ENCOUNTERED/CORRECTIVE ACTION TAKEN:			
SPECIAL NOTES:			
	<u></u>		
TOMORROW'S EXPECTATIONS:			
Develop wells			
BY Gerlyn T. Perlas TITLE Smark	ur		Page 2 of 2
BT Genyir I. I chas			

		Q		
Date	12 /	1 /0	2	

MALCOLM PIRNIE, INC.	
DAILY QUALITY CONTROL REPOR	T

Day	s	М	Т	w	тн	F	s
		X					
		4					

		<u> </u>				
USACE PM:	Weather	Bright Sun	Clean	Overcast	Rain	Snow
Malcolm Pirnie PM: _ Tony Pace	Temperature	< 32	32 - 59	50 - 70	70-85	>85
Project: 80th Division Reserve Site LARC 60 maint	. Arch Wind	Still	Moderate	High	REPO	RT NO.
Malcolm Pirnie Job No0285-947 900 USACE Contract No. DACA31-00-D-0043	Humidity	Dry	Moderate	Humid		
Delivery Order No			<u> </u>		L	
SUBCONTRACTORS ON-SITE:						
Fishburne Drilling			 			
EQUIPMENT ON SITE:						
-Drill rig Submersible pump						
-Drillrig Submersible prump Water well indicator (Solicist W1)						
WORK PERFORMED (INCLUDING SAMPLING):						
Developed monitoring wells						
·	<u>-</u>					
						
					·	
			<u> </u>			
			 .			
	 -		_			
			. 			

Project: 80th Division Reserve Site _ LMRC 60 MainT, MCA	Report No.			
Malcolm Pirnie Project No 0285-9(7 900	Date _	12 /	/ 02	
QUALITY CONTROL ACTIVITIES (INCLUDING FIELD CALIBRATIONS):		<u>.</u>		
Honiba 4-10 ptt: 3.97				
cond: 4.49				
Omb! 0		_ ,	<u> </u>	
				_
				
HEALTH AND SAFETY LEVELS AND ACTIVITIES:		-		
Level D				
PROBLEMS ENCOUNTERED/CORRECTIVE ACTION TAKEN:				
				_
SPECIAL NOTES:				
			· · · · · ·	
				_
	<u> </u>			_
TOMORROW'S EXPECTATIONS:				_
Install Mw-89@ 80 th DIVISIUM Regenve Site				
			···	
	· · · · . ·			

Page 2 of 2

BY Gerlyn T. Perlas TITLE Engineer

FIGURE 2 (CONT.)

MALCOLM PIRNIE, INC. DAILY QUALITY CONTROL REPORT

USACE PN	Λ:	
Fort Story I	Rep: 10anna	<u>bateman</u>
Malcolm Pi	rnie PM: _ Tony F	Pace
		.٨.
Project:	80th Division R	eserve Site
Malcolm Pi	rnie Job No	0285-917
USACE Co	ntract No. DACA	31-00-D-0043
Delivery Or	der No.	

Day	s	М	T	W	TH	F	S		
			X						
								_	
Weather	Brigh	t Sun	Cle	ear .	Ove	rcast	Ra		Snow
Temperature	< ;	32	3/	50)	50	- 70	70-	-85	>85
Wind	St	ill	Mode	erate	(H)	gh	RI	EPO	RT NO.
Humidity	Di	ry	Mode	erate	Hui	mid			

SUBCONTRACTORS ON-SITE:
Fishburne Drilling
EQUIPMENT ON SITE:
Drill rig - ATV
WORK PERFORMED (INCLUDING SAMPLING):
wer justallation.
Soil Characterization
well justallation Soil Characterization well Development

IGURE 2 (CONT.)		
roject: 80th Division Reserve Site	Report No.	· · · · · · · · · · · · · · · · · · ·
alcolm Pirnie Project No 0285-917	Date _	12/ 10/
UALITY CONTROL ACTIVITIES (INCLUDING FIELD CALIB	RATIONS):	
Horiba U-10 pH: 4 candi 4,49		
mp:0		
y		 -
PID freshair: 0.0 ppm		
PID freshair: 0.0 ppm Isoburyunu: 100 ppm		
		· · · · · · · · · · · · · · · · · · ·
EALTH AND SAFETY LEVELS AND ACTIVITIES:		
EALTH AND SAFETY LEVELS AND ACTIVITIES:		
Level D		
Lend D	l:	
Level D	l:	
Level D	l:	
	l:	
Lend D	l:	

BY	Gerlyn T. Perlas	TITLE	Engineer	
-			0	

TOMORROW'S EXPECTATIONS:

	1	7/12	
Date			

MALCOLM PIRNIE, INC. DAILY QUALITY CONTROL REPORT

			_				
Day	s	М	Т	W	тн	F	s
			-				

			*			
USACE PM:	Weather	Bright Sun	Clear	Overcast	Rain	Snow
Malcolm Pirnie PM: Thy pre	Temperature	< 32	32 - 50	50 - 70	70-85	>85
Project: 80 NR S Malcolm Pirnie Job No. 0255917	Wind	Still	Moderate	High }	REPOI	RT NO.
USACE Contract No. DACA31-00-D-0043 Delivery Order No	Humidity	Dry	Moderate	Humid		

SUBCONTRACTORS ON-SITE: EQUIPMENT ON SITE: ACTUAL CONTRACTORS ON-SITE: ACTUAL CONTRACTORS ON-SITE:
MANOR WILL
MANOR WILL
MANOR WILL
MOND IN WILL SUINIST ICA GRAHMY GIWNA TS WORK PERFORMED (INCLUDING SAMPLING): GW SAMPLING
SCHNIST IS GENERAL GUNA JS WORK PERFORMED (INCLUDING SAMPLING): G.W. Shimpling
WORK PERFORMED (INCLUDING SAMPLING):
GW Shimphing



FIGURE 2 (CONT.) Project: & MS

Project: 60 VRS	Report No.
Malcolm Pirnie Project No. 6285 917	Date 1/7/03
·	
QUALITY CONTROL ACTIVITIES (INCLUDING FIELD CALIBRATIONS):	
Hariba: pH 3.8	
4.47	
MB_0	
HEALTH AND SAFETY LEVELS AND ACTIVITIES:	
(24cc D	
	-
PROBLEMS ENCOUNTERED/CORRECTIVE ACTION TAKEN:	
SPECIAL NOTES:	
TOMORROW'S EXPECTATIONS:	
Resume GN monitoring	
J	
BY Junelyn Ferlas TITLE Engineer	Page 2 of 2

MALCOLM PIRNIE, INC.

DAILY QUALITY CONTROL REPORT	Say		X			
USACE PM: Fort Eustis Rep:	Weather	Bright Sun	Clear	Overcast	Rain	Snow
——————————————————————————————————————	Temperature	< 32	32 - 50	50 - 70	70-85	>85
Project: 80 DRS Malcolm Pirnie Job No. 0285 917	Wind	Still	Moderate	High	REPOI	RT NO.
USACE Contract No. DACA31-00-D-0043 Delivery Order No	Humidity	Dry	Moderate	Humid		

SUBCONTRACTORS ON-SITE:
EQUIPMENT ON SITE:
Hrriba U-10, Grundfot, Generator, Solinist 101
WORK PERFORMED (INCLUDING SAMPLING):
Gw montumy

FIGURE 2 (CONT.)	
Project: 80 tones	Report No.
Malcolm Pirnie Project No. 0285917	Date 1/8/03
QUALITY CONTROL ACTIVITIES (INCLUDING FIELD CALI	BRATIONS):
HURIBA U-10: PH: 3.75	
and: 4.59	
ruro: 2	
HEALTH AND SAFETY LEVELS AND ACTIVITIES:	
Level D	
Henry	
	
PROBLEMS ENCOUNTERED/CORRECTIVE ACTION TAKE	:N:
SPECIAL NOTES:	
	
TOMORROW'S EXPECTATIONS:	
PM8h 8ampling	,
1 4.010 00 1/2 9	
	-
	

BY GIRLYN PERLAS TITLE Engineer

Page 2 of 2

MALCOLM PIRNIE, INC.

MALCOLM PIRNIE, INC. DAILY QUALITY CONTROL REPORT	Day	S	М	Т	w	X	ř	S	
USACE PM:	Weather	Bright	Sur	Cle	ear	Ove	rcast	Rain	Snow
Malcolm Pirnie PM: Towy Piece	Temperature	< 3	2	32 -	- 50	50	- 79	70-85	>85
Project: 80 DRS Malcolm Pirnie Job No. 02 85 917	Wind	Sti	II	Mod	erate	Hi	gh	REPO	RT NO.
USACE Contract No. DACA31-00-D-0043 Delivery Order No	Humidity	Dr	у	Mode	erate	Hu	mid		

SUBCONTRACTORS ON-SITE:
EQUIPMENT ON SITE:
Generator, Horba N-10, Grundfos, Solinist 101
WORK PERFORMED (INCLUDING SAMPLING):
Gw sampling
J

FIGURE 2 (CONT.)	
Project: ODRS	Report No.
Malcolm Pirnie Project No. 6285917	Date 01/09/03
·	·
QUALITY CONTROL ACTIVITIES (INCLUDING FIELD CAL	IBRATIONS):
HORIBA UTIO	
pH: 3.99	
Cond; 4.51	
turb: 0	
HEALTH AND SAFETY LEVELS AND ACTIVITIES:	
Level D	
PROBLEMS ENCOUNTERED/CORRECTIVE ACTION TAK	EN:
cannot locate mwgos. May be bene	eath pile of scrap metal.
cannot weate mwp3. may be benumled await further instructions from	.T.Pace.
SPECIAL NOTES:	

BY GERLYN PERLOS TITLE Engineer

TOMORROW'S EXPECTATIONS:

Page 2 of 2

Appendix B Chain-of-Custody Forms

QCS/AR Report 80th Division Reserve Site Fort Story, Virginia





	4, 34 1.44.	
${}^{\smallfrown}{}_{L}$	IAIN-OF-	STODY RECORD
J∙ Γ	IAIN-UE-	SIUUT KEGUKU

No

	•		Λ	ΛT	T	1	`LI		M					011/	4114-C	<u>// '</u>		<u>וועל</u>												110	<u> </u>			
									I VI Corp.	Proje	ect	Name :) b	18			Client Address Malada - fine Poi							Point-of-Contact:										
		50	01 N	/lad	isor	۱A۱	enu/	ıe		Carr	ior	: 14°	<u></u>	**				28000 j						Good go	<u> </u>		+							
			Ca	ıry,	NC	27	513			Airbi							-			p*****	. vv	<u> </u>					_	Telephone No. 1757 875 8760						
			1-8	300	-833	3-50	97			-	_		1 1	tre Po	- j. v			<i>(6⊲)</i> ler Signa									_	Sampling complete? Y or N (see Note 1)						
BOX #	1	1.5	Surfa	ace	Wat	er		6	Frip Blan		Pie		A. HCI		F. Ice O		Samp	BOX #3		F. Fi	Hore	<u> </u>		Te	lox #	14	_	roje . Hig			ific (PS) or Batch (B) QC ? Box #5 C. CLP 3/90 T. TCL	<u>-</u>		
					.v Vate			7. (•		20K #2		3 + Ice				BOX #5		U. U					, A	-		-	in ediun		S. SW-846	F		
		3. L					96	8. \	Vaste					H + Ice						0.0									v		W. CWA 600-series			
		4. F	Rins	ate				9. (Other		.		D. H2S	04 + lce	I. ZnAc	NaOH +	lce														O. Other			
		5. 5	Soil /	Se	dime	nt /	Slud	ge					E. Unpr	eserved				<u> </u>						\perp										
		-							Ι ,	T		Box #1	Box #2	Box #3	Box #4	Box #5					П	Т	T	Т	_T	Τ	Т	T	Ţ	Т	<u> </u>			
											- {		}	Pe d											÷	-								
		S	am	nie	ID								l o	Jille	onc.		_{&}	ا م (د ا م			İ			5							Remarks / Comments			
(9	cha			•		imı	ım)		ear.				ativ) Š	P) Set	Lab Pur			ايو		ا ۾	Š	. č	티					(see Notes 2 & 3)			
·							·		Date:Year:	Time		Matrix	Preservative	Filtered / Unfiltered	Expected Conc.	Method	No. of Bottles	Use for Lab QC (MS or DUP)	VOA	ဗွ	sticic	: ا بھ	<u> </u>	tals	֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓) j			İ	1	(000 110100 2 0 0)			
-	1	1		Π.	τ-	Τ.	Τ.	_	<u> </u>	<u> </u>	_	Σ	<u> </u>	臣	<u> </u>	ž	<u> </u>	<u>5</u> €	>	svoc	e B	입.	뿐 :	<u>≅</u> ₹	<u>5 5</u>	2 8	4	_	\bot	_				
		1.50					1_		11/	::							i, į		1	1-1	j	ल्य ३		B	77 M						THE TOTAL			
					L	L			1	11:		4		1.3		2	. Š		1.5	;	1	ž.		1							All the state of the state	٠.		
		21 A	į,	ß			1		/ 1	8			:. :			N.			i d	∮ :	1	i		T.	1									
									1	:																					and the first			
							1		1	<u> </u>				7			1					4									19170			
									/	:																				1				
		ļ. · .							1	:		·							100	:								T						
		ŀ					1		17															:			T	\top		T				
							1.3		1 / 1	:																	T	T						
							1		,	:																		1		T		_		
Client	s Sp	ecia	l Ins	stru	ctio	ns:																								1	Temperature°C	_		
Lab: F	Rece	ived	in (300	d C	ond	ition	? \	or N	Des	crib	e Proble	ms, If ar	ıy:																				
#1 Rel	inqui	ished	d By	: (Si	g)		,	• ,				Date:	7 7/W	#2 Relin	quished l	By: (Sig)					Date	e:		#	3 Re	linqu	uish	ed B	y: (S	ig)	Date:			
Comp	any f	lame	e:	, \	: .		t <u></u>	v 12	· <u>v.</u> #:		,	Time:	· · ·	Compan	y Name:						Time	e:		ļ	omp	any	Nan	ne:			Time:			
#1 Re	ceive	d By	/: (S	ig)								Date:		#2 Rece	ived By:	(Sig)					Date	9:		#	3 Re	ceiv	ed E	3y: (Sig)	_	Date:			
Comp	any N	lame	e:									Time:		Compan	y Name:						Time	e:			omp	any	Nan	ne:			Time:			

COMPUCHEM
a division of Liberty Analytical Corp.

\sim L	AIN	OF-C		'ODV	REC	
LH.	AIN-	·Ur-U	اد	UUT	KEU	UKU

No.

Point-of-Contact: Client Address: Project Name: Maicein Firnit 30 bRS Tony Pace Telephone No. :757-873-8700 701 Town Genter Drive. 501 Madison Avenue Carrier: Cary, NC 27513 Mempett News, VA 23606 Sampling complete? Y or N (see Note 1) Airbill No.: 1-800-833-5097 Sampler Name: Gerten Parton Project-specific (PS) or Batch (B) QC? Sampler Signature: Box #5 C. CLP 3/90 T. TCLP BOX #3 Box #4 H. High F. Filtered 1. Surface Water 6. Trip Blank BOX #2 A. HCI + Ice F. Ice Only BOX #1 M. Medium S. SW-846 U. Unfiltered 7. Oil B. HNO3 + Ice G. Other 2. Ground Water W. CWA 600-series L. Low 8. Waste C. NaOH + Ice H. NaHSO4 + Ice 3. Leachate O. Other_ D. H2SO4 + Ice I. ZnAc+NaOH + Ice 9. Other_ 4. Rinsate E. Unpreserved 5. Soil / Sediment / Sludge Box #4 Box #5 Box #2 Box #3 Box #1 Filtered / Unfiltered Use for Lab QC (MS or DUP) Metals / Mercury Conc. Remarks / Comments No. of Bottles TOC / TOX Sample ID 0&G / TPH Preservative Pesticide Herbicide (see Notes 2 & 3) Date: Year. Expected Cyanide (9 characters maximum) Method SVOC Matrix VOA PCB ٥С Temperature Clients Special Instructions: Describe Problems, If any: Lab: Received in Good Condition? Y or N Date: #3 Relinquished By: (Sig) Date: Date: #2 Relinquished By: (Sig) #1 Relinquished By: (Sig) Company Name: Time: Time: Company Name: Time: Company Name: #3 Received By: (Sig) Date: Date: #2 Received By: (Sig) Date: #1 Received By: (Sig) Time: Time: Company Name: Company Name: Time: Company Name:

Note (1): If "N" lab will hold samples to await remainder of project-maximizing batch size and minimizing QC ratio; if "Y" lab will begin processing batches now. Note (3): All lab copies of data destroyed after three years. Note (2): Samples stored 60 days after date report mailed at no extra charge.



	1.1			
~		TODY	RECORD	
· U A I KI ()		: ()) \	DECTOR	
. — — — — — —		•	RELLINI	

No. 50 0 **C**JMPU**C**HEM Project Name : Client Address: Point-of-Contact: 80 PRS Malcolm Pirole Tony Pace Telephone No. 757-873-8700 501 Madison Avenue Carrier: £600 701 Town Center Drive. Cary, NC 27513 Sampling complete? Y or N (see Note 1) Airbill No.: Newport News, VA 23606 1-800-833-5097 Project-specific (PS) or Batch (B) QC? Sampler Name: Gerlyn Parlos Sampler Signature: **BOX #1** 1. Surface Water 6. Trip Blank BOX #2 A. HCI + Ice BOX #3 F. Filtered Box #4 H. High Box #5 C. CLP 3/90 T. TCLP F. Ice Only 7. Oil U. Unfiltered M. Medium S. SW-846 2. Ground Water B. HNO3 + Ice G. Other 3. Leachate 8. Waste C. NaOH + Ice H. NaHSO4 + Ice L. Low W. CWA 600-series 4. Rinsate 9. Other D. H2SO4 + Ice I. ZnAc+NaOH + Ice O. Other 5. Soil / Sediment / Sludge E. Unpreserved Box #2 Box #3 Box #4 Box #5 Filtered / Unfiltered Use for Lab QC (MS or DUP) Metals / Mercury Expected Conc No. of Bottles Sample ID Remarks / Comments Preservative TOC / TOX Date:Year Pesticide (9 characters maximum) Herbicide (see Notes 2 & 3) Cyanide Method SVOC V V PCB Time MARGELL BY 55- MARIE - 61 SC-MWHORKShore STUPPED MORE Kind . . Markey - A fra file of ٥С Temperature **Clients Special Instructions:** Describe Problems, If any: Lab: Received in Good Condition? Y or N Date: #2 Relinquished By: (Sig) Date: #3 Relinquished By: (Sig) Date: #1 Relinquished By: (Sig) Time: Company Name: Time: Company Name: Time: Company Name: #3 Received By: (Sig) #2 Received By: (Sig) Date: Date: Date: #1 Received By: (Sig) Time: Time: Time: Company Name: Company Name:

Note (1): If "N" lab will hold samples to await remainder of project-maximizing batch size and minimizing QC ratio; if "Y" lab will begin processing batches now.

Note (2): Samples stored 60 days after date report mailed at no extra charge.

Company Name:

Note (3): All lab copies of data destroyed after three years.



CHAIN-OF- STODY RECORD

No. 157 Maria

		اں sion o								Projec	t Name												Point-of-Contact:							
		501								Carrie		Te j	. *			Gat Time Code Drive								Telephone No.: 757 5 63 - 7 7000						
				NC 83-						Airbill													_	Sampling complete? Y or N (see Note 1)						
		,-		-00.	J-J.					Sampl	er Nam): (27)		To Page	Park	Sample	er Signa	iture	:						_			speci	fic (PS) or Batch (B) QC ?	
BOX #1	2 3 4	Surf Gro Lead Rins Soil	und chat sate	Wat e	er	' Slu	7. 8. 9.	Oil Wa Oth	Blank ste		BOX#	C. NaO	3 + Ice H + Ice O4 + Ice	H. NaH	Only BOX #3 F. Filtered Box #4							H. Hi M. M L. Lo	ediu		Box #5 C. CLP 3/90 T. TCLF S. SW-846 W. CWA 600-series O. Other	•				
(9 cl		Sam acte	-			um)		Date:Year	Time	Matrix xog	Preservative 80x #2	Filtered / Unfiltered xx	Expected Conc. vog	Method	No. of Bottles	Use for Lab QC (MS or DUP)	VOA	SVOC	Pesticide PCB	Herbicide	Herbicide Metals / Mercury Cyanide TOC / TOX O&G / TPH							Remarks / Comments (see Notes 2 & 3)	
3 /			1				1			4.41			2.1		5	** **		1.1	A	1									Company of the second	
		. (.					1		1	1.0	N 15		1.1					100		2										
					\top				1	Section 1					-	. 1				¢ .		:							Selfer Finance	
	+		1	1	T		+	\top	1																					
	\dagger	+	1	†	T	+	<i>.</i>	\top	1:					<u> </u>			1		1									_		
	\dagger	+	十		\dagger	1	\dagger	+	· <u>·</u>		†	 									\dagger	1				\neg	1	1		_
		+-	+	+	\dagger	†	+				 				<u> </u>	1						1				_	+			
	+	+-	+	╁	+	+	i	+		•	-			1	<u> </u>	<u></u>		\vdash	\dashv	-		-	\vdash			+	+			_
	+	+	╁	+	+	+	+	╁			+			-	ļ <u></u> .			\vdash		_	+	\vdash		H		\dashv	+	+-		
	+	+	╁	+	+	+	+	+		:	-	-	 		1				\vdash	+	+	╁	\vdash	H	-	+	+			
Clients S			etr	ıctic	ne:	L]_			<u> </u>	<u> </u>		1	_1	<u> </u>	1	l	<u> </u>	Ш				<u></u>	Ш	I			<u> </u>	Temperature°C	
Lab: Rec							n?	Υ 0	or N	Desci	ibe Prob	lems, If a	ny:																	
#1 Relino											Date:	. 1 1	1	nquished	By: (Sig)					Date:			#3	Relin	quis	shed	Ву: (Sig)	Date:	_
Company					. :	: , :					Time:		Compa	ny Name:						Time:	:		Co	mpar	ıy N	ame:			Time:	
#1 Recei			Sig)						``.		Date:		#2 Rec	eived By:	(Sig)					Date:			#3	Rece	eivec	i By:	(Sig)	1	Date:	
Company	/ Na	me:									Time:		Compa	ny Name:						Time	:		Co	mpar	ny N	Name: Time:				



CHAIN-OF-	CODY	RECORD
CHAIN-OF.	וטטוני	KECOKD

No.369965

											Project	Name :						Addres									Po	int-	of-C	Conta	act: May PACE
	divi	sion	of l	Liber	rty A	Anal	lytic	al C	Corp.		C_{i,C_i}	3 - 12/A	2 S _				761	$-\tilde{i}(i)$ ω_i	, (10 pg (20	$\langle \cdot \rangle$		1-1	10	G.	Ĺ				
		501						е			Carrier	:	441				ME	2018 T	/	VC 2	J,	V	<i>17</i> /N				Tel	lept	none	e No	 17√ t = for t > 20 Km²
				v, Ni 0-8:							Airbill N	lo. :						5/40km									Sa	mpl	ing	cor	mplete? Y or N (see Note 1)
		1	-00	0-0.			,				Sample	r Name	:(.07	y 11.	R. h		Sampl	ler Signa	ture	:							Pro	ojec	t-sp	ecif	fic (PS) or Batch (B) QC ?
BOX #1	1	. Sur	fac	e W	ater			6. T	rip Bla		·		A. HCI +		F. Ice O			BOX #3		F. Fil	tered	1		Bo	x #4		Н. І	High			Box #5 C. CLP 3/90 T. TCLP
	2	. Gro	ound	d W	ater			7. C	Dil				B. HNO	3 + Ice	G. Other					U. Ur	nfilter	red		İ			M. I	Med	ium	ŀ	S. SW-846
	3	. Lea	acha	ite				8. V	Vaste				C. NaOl	+ Ice	H. NaHS	604 + Ice)	1									L. L	.ow			W. CWA 600-series
	4	. Rin	sat	е				9. 0	Other					04 + Ice	I. ZnAc+	NaOH +	Ice														O. Other
	5	. Soi	1/5	edir	nen	t/S	ludg	ge					E. Unpre	eserved				·													
									Ι.			Box #1	Box #2	Box #3	Box #4	Box #5		1					Τ	Π							
									1				'	<u> </u>						Į											
		n			_									Filtered / Unfiltered	onc.		ςς	9 6	1				15								Remarks / Comments
(9 c		San	-			2011	m۱	.1	<u> </u>				ati i	วั	Ŭ		¥	[Fa]			اي	يو ا	₹		õ	гРН					(see Notes 2 & 3)
(9 (ııaı.	acit	513	1110	1711	Hu	'''		Date:Year:		o	Æ	Preservative	<u>8</u>	Expected Conc.	Method	of Bottles	o to		8	ള		als	į	[/]	./9			i		(000 110100 2 2 0 0)
									ğ		Time	Matrix	Pre	i ii	ά ώ	Met	Š	Use for Lab QC (MS or DUP)	Λογ	svoc		Z E	ĕ Ž	ठ	P	08					
							ĵ.		· ;; / ·	į	1:18	4	-		ĺ				1												
		Ì	7	1			1		100			£ .,					\ /			:	1 1										
			\top	1	7		1		,					, A			2			1	and a second		1				<u> </u>				
		\dagger	\dagger		I	1			,										\Box	1	1		_							П	
	\dagger		1	1	1				, ·		:			:				1		\dashv	;		1	<u> </u>	1				Ħ		
	+		\dagger	1	-		``				• : .						\	 		\dashv				T							
_	+	+	+	+	\dashv		7.1		<u>'</u>		.,											\dagger	+	\vdash							
-	+	+	+	+	+		\dashv	_	\		•		<u> </u>					 			-		+	+-	\vdash			-		Н	
╁┼┼	+	+	+	+	\dashv	\dashv			<u>'</u>	\dashv	<u> </u>							 		-		+	\dagger	+	╁	<u> </u>	-	\vdash	┢		
	+	+	+	\dashv	+	\dashv		_	 	\dashv	:							<u> </u>	H	\dashv	\dashv	+	╁	+-	├	-	├	╁┈		H	
						1			/		:		<u> </u>	1			<u> </u>	<u> </u>	1_1		_l.			<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	Ш	Temperature °C
Clients Lab: Re	•						ion		Y or N		Descri	e Proble	ms. If ar						 -						- ,						Temperature°C
#1 Relin						ruit		•	. 01 14		Descri	Date:	100	Ī	quished l	3y: (Sig)	·-			ı	Date:	:		#3	Relii	nqui	shed	d By	: (Sid	g)	Date:
Compan		_	-	` .				1				Time:		†	y Name:						Time	_		1	mpa				•		Time:
#1 Rece	ived	Ву: ((Sig)								Date:		#2 Rece	eived By:	(Sig)				1	Date:	:		#3	Rec	eive	d By	/: (Si	ig)		Date:
Compar	y Na	me:										Time:		Compar	ny Name:						Time	:		Co	mpa	ny N	lame	e:			Time:



1. Surface Water

2. Ground Water

3. Leachate

4. Rinsate

BOX #1

501 Madison Avenue Cary, NC 27513 1-800-833-5097

T. 7		CH	AIN-OF	STO	DY RI	ECORD		No	. 19740
EM cal Corp.	, ,	Name:		1	Address	: Mar. L. 1.0		Point-of-Co	ntact :
е	Carrier	: 40		7V1 343	NOT A	015 JA .	1 / leid;	Telephone I	No.: 751 873 6 100
	Airbill N	lo. :						Sampling of	omplete? Y or N (see Note 1)
	Sample	er Name : (1977 has 1	Parles	Sample	r Signatu	re:		Project-spec	cific (PS) or Batch (B) QC ?
6. Trip Blan	k	BOX #2 A. HCI + Ice	F. Ice Only		BOX #3	F. Filtered	Box #4	H. High	Box #5 C. CLP 3/90 T. TCLP
7. Oil		B. HNO3 + Ice	G. Other			U. Unfiltered		M. Medium	S. SW-846
8. Waste		C. NaOH + Ice	H. NaHSO4 + 1	ce				L. Low	W. CWA 600-series
9. Other		D. H2SO4 + Ice	I. ZnAc+NaOH	+ Ice					O. Other

5. Soil	/ Sec	dime	nt / :	Slud	ge_				E. Unpre	eserved				<u> </u>									 		
Sam (9 characte			imu	ım)		Date:Year:	Time	Matrix	Preservative xo#	Filtered / Unfiltered x #3	Expected Conc. sog	Method	No. of Bottles	Use for Lab QC (MS or DUP)	VOA	svoc	Pesticide	PCB	Metals / Mercury	Cyanide	TOC / TOX	O&G / TPH			Remarks / Comments (see Notes 2 & 3)
	1	!		17.		11	0 : N																		
						1771	11.1							İ											
				1		177																			
						1	:																		
	20.76. 2					97E		14	A			10 mg/s													1 x 335 12/14 02
												3	****				A Company	1							(4 S + 20402
						V_{I}	1,1,1	1	3°	1 1									page - mark						Calley, Payers A.
						/	:																		
			k.			1	:	ij					}	<u> </u>										\perp	
						1	:							<u> </u>											
Clients Special In	stru	ctio	ns:																						Temperature °C

Lab: Received in Good Condition? Y or N Describe Problems, If any: #1 Relinquished By: (Sig)-Date: #2 Relinquished By: (Sig) Date: #3 Relinquished By: (Sig) Date: Time: Company Name: Time: Company Name: Company Name: Time: Date: #2 Received By: (Sig) Date: #3 Received By: (Sig) #1 Received By: (Sig) Date: Time: Company Name: Time: Company Name: Time: Company Name:

Note (1): If "N" lab will hold samples to await remainder of project-maximizing batch size and minimizing QC ratio; if "Y" lab will begin processing batches now.



CHAIN-OF-	STODY RECORD	NO. 340 %
Project Name :	Client Address :	Point-of-Contact :
80 DRS	Malcolm Pirnie	Tony Pace
Carrier:	701 Tom Center Drive, #600	Telephone No. 757-873-8700
Airbill No.	Newport News, WA 23606	Sampling complete? Y or N (see Note 1)
Sampler Name: Gerlyn Perlas	Sampler Signature :	Project-specific (PS) or Batch (B) QC ?
Sampler Name . Get 10 / 11 1 1 2 Card	Day #4	H High Box #5 C CLP 3/90 T. TCLP

									TAT	Projec	t Name :				``		Addres									_				
	a di	visi	on o	f Lit	erty	Апа	ilyti	cal (Corp.		;	80 DRS	<i>.</i>				tolm P												Pa	
		50			ison			ıе		Carrie	:	1.470				701	Can	Cer	1 y d	r I)rd:	70 g	#€	900		⊺	ſele	pho	ne l	No. 757-873-8700
					NC					Airbill	No. :	,				News	port N	eve	1 ,	¥.A	<u>23</u>	606								omplete? Y or N (see Note 1)
			1-8	300-	833	-50	97			Samp	er Name	Cer	Ion Pe	rlas		Samp	ler Signa	ature	e : _								_	_	spe	cific (PS) or Batch (B) QC ?
BOX #1					Wate				Trip Blan			A. HCI +	lce	F. Ice O			BOX #3		F. F	iltere	ed ered		В	ox #	#4		1. Ні И. М	igh Iediu	ım	Box #5 C. CLP 3/90 T. TCLP S. SW-846
					Nate	er		7. (B. HNO		G. Other					0. 0	J.,,,,,,	0,00						Lo			W. CWA 600-series
			_eac		•				Waste					I. ZnAc+																O. Other
			Rins						Other			E. Unpre		1. ZHACT	riva Oi i i	100	1						-							
		5. 3	Soil	Se	dime	nt /	Slu	ige										$\overline{}$						_		Ţ		_		
(9	cha			-	ID nax	imu	ımı)	Date:Year:	Time	Matrix Box #1	Preservative 8	Bitered / Unfiltered x *	Expected Conc. x	Method wethod	No. of Bottles	Use for Lab QC (MS or DUP)	VOA	svoc	Pesticide	PCB	Herbicide	Metals / Mercury	Cyanine TOO (TOX	10C/10X	0&6 / LT				Remarks / Comments (see Notes 2 & 3)
	Т	Ι		Ţ.	1.	П	1.7	T			1,11		- 1		().			1	2			11111		1	١				
<u> </u>				₋	1	<u> </u>	17	-	10^{-3}	(1:)	-	 		 	\vdash	1	 	+	-		H	\dashv	+	+	+	+	寸	\dashv	_	
į			1	1					1	:	l		ļ	<u> </u>		<u> </u>		$oldsymbol{ol}}}}}}}}}}}}}}}}}}$	<u> </u>	<u> </u>		_	4	_	_	\perp	\dashv	_	\dashv	
+	\vdash	 	\dagger	1	†	\vdash	T	1	1										1	Ŀ		- 1				1	i		l	
	<u> </u>	_	↓_	1	1_	↓_	↓_		 	 	+	 	 	┼	 	 	+	+	t		┤┤	十		\top	+	┪	十		\dashv	
				1		ł			1	:				<u> </u>	<u></u>	<u>.</u>		. ↓	<u> </u>	_		\dashv		4		_	\dashv	_	_	
	 		1	T	1	T	\top		1 ,									1												
\perp	!	-	↓_	1	—	↓_	╀	╁	 	 		 	 	 	 	 	 	+	†	 		\dashv	7	T	+	\forall			7	
	ì					1	ļ	1	1	:			<u> </u>	1		<u> </u>		_	$oldsymbol{ol}}}}}}}}}}}}}}}}}}$	<u> </u>		_	4	4	4	\dashv	-		_	
	十	⇈	1	1	T	1			,				1			}	ŀ					İ				1				
-	+	-	+	+-	+-	╁	╁	+-	 	 	- 	+	 	_	 	 		\top	T	T	П	\neg	7	\top	\dashv	1			\neg	
			1		1		L		/	:					ļ	<u> </u>	 _	+	╄-		Н	\dashv	-	+	\dashv	4	-	_	-	
	Τ			T	T				1,		ļ	1											-			Ì	l			
┝╌┼╌	+	╁	╁╌	╁╴	╁╌	╁╴	╁	╁	+	 			†					1	Τ					T						
	<u> </u>	L		_		L			/		<u> </u>			<u> </u>	<u> </u>				1_		1									Temperature °C
Client	s Sp	eci	al Ir	strı	ıctio	ns:																				_				Temperature°C
Lab: F	Rece	ive	d in	God	od C	ond	litio	n?	Y or N	Desc	ribe Probl	ems, If a	ny:																	
#1 Re										- 1	Date:	7 1	T	nquished	By: (Sig)				Da	ite:		#	∤3 R	eline	quis	hed	Ву:	(Sig) Date:
									A. Land	Star	Time:		<u> </u>	ny Name						Tir	ne:			Com	ıpan	y Na	ame	:		Time:
Comp					1/ - 1	1 67	1.0		1 1 1 1 1 1 1	1 () () ()	Date:		1	eived By:						Da	ite:				· Rece				 g)	Date:
#1 Re				51 9)							Time:			ny Name	<u> </u>					Tir	me:				npan					Time:
Comp	anv	Nan	ne:											,																

Note (1): If "N" lab will hold samples to await remainder of project-maximizing batch size and minimizing QC ratio; if "Y" lab will begin processing batches now. Note (3): All lab copies of data destroyed after three years. Note (2): Samples stored 60 days after date report mailed at no extra charge.



	STODY	DECODD	
'LIAIRI ()E.	L AICHIY	RELLIKU	
MAIN-UE-			

No. 86 3 4

		C											Pr	rojec	et N	lame :	80 D8		AIN-C	/ /-	Client	Addres	ss:		<u> </u>	<u> </u>					T	'on'	y I	Рас	act :			
	•			1 N									<u> </u>	arrie	<u>.</u>		Y .			 ·		Town						#6	00		Tel	eph	one	e No	.:757-873	-8700		
				Са	ry,	NC	27	51	3				-	irbill							Newp	ort N	ews	, , ,	Ά.	236	06				Sar	npli	ing	cor	mplete? Y.o	<u>r N (s</u>	ee No	te 1)
				1-8	00-	830	3-50	97	7				Si	amp	ler	Name	: Gerl	yn Pe	erles		Sampl	er Signa	ture	:										ecif	ic (PS) or Ba	itch (B)	QC?	TOLD
юх	#1	2	. G	urfa	nd \	∕Vat			7	7. O	il	Blank					A. HCI + B. HNO	lce 3 + Ice	F. Ice O G. Other H. NaHS	r		BOX #3		F. Fi U. U				В	ox #4		H. F M. N L. L					:LP 3/90 :W-846 CWA 600		T. TCLP
		_	-	eacl insa		•					√ast	:e r			l				I. ZnAc+												•				Ο.	Other		
				oil /		dime	ent /	/ SI			ALI PCI				1		E. Unpre					<u> </u>				_												
						_		_	_	\exists			T		_	Box #1	Box #2	Box #3	Box #4	Box #5	T	Τ			T	T		Т	Τ	Γ								
	(9 c			ımı ter				ur	n)		*	Date:Year:		Time		Matrix	Preservative	Filtered / Unfiltered	Expected Conc.	Method	No. of Bottles	Use for Lab QC (MS or DUP)	VOA	svoc	Pesticide	PCB	Metals / Marchin	Cvanide	TOC / TOX	O&G / TPH					l.	rks / Co		
٠.	7	\neg	.,	1,43			T.,	Т				<u>. </u>	T	, . 1	1.	1		- 1						1		ş.			į							31/10	(P)	
\dashv	\perp	+	_		H		+	+	1			<u>/ </u>	+	<u> </u>	_		 			<u> </u>	†	<u> </u>	T			1	1							Γ		3.1 s.t		
	+	\dashv	_		\vdash	/ .	-	+	\dashv			<u>/</u>	+	•	-				1		7					1			i									
<i>(</i> ·	• •				-	-	╁	+	_		* 17	<u>/ i '</u>	+		-		-		 		 	 	T				\dagger	1	T	T				1	1-4	2)1 i,	i (trai)	. I. W
-	_	\dashv	_	_	-	+-	+	+	\dashv		-		+		\dashv			1)	+-			 	1.1	1	i	+	\dagger		+	T	1			+				
		4	ħ.	3.37	17	+	+	+			1	1	1,16-		5000		-	525	 				+-;				+		+	\dagger	\vdash		 	\dagger		1 1 1	1 377	s gilter
		\dashv		<u> </u>	L	\downarrow	-	4	\dashv		-		+	<u>:</u>			<u> </u>	 	+	-		 	╁	\vdash		+	+	+	+	╁	+	-		+				
			!			1	+	4		_		1	4	:	_	-1	:		- 1 11 for the last	-	The state of the s	+	+	-	\vdash	+	\dashv	\dashv	+	+	+-	├-	\vdash	+				
					$oldsymbol{ol}}}}}}}}}}}}}}}$		1	_			L	/	1	_:_	_		<u> </u>	 			-	 	-	-		\dashv	+	+-	+	+	+	├-	-	+				
						\perp	\perp		_		_	1	-	<u>:</u>			ļ <u>-</u>	<u> </u>	_	ļ	 	 	╁	-		+	+	+	\perp	+	-	├	-	╀				
										ļ		1		<u>:</u>			<u> </u>		<u> </u>	1	<u> </u>	<u> </u>									1.	<u> </u>	<u> </u>		<u> </u>			
Clie	ents	Spe	cia	ıl In	str	ucti	ons	:																											Tempe	erature	·	°C
Lal	: Re	cei	ved	in	Go	od (Con	dit	ion	? `	Y oı	N_		Desc	crit	e Prob	ems, If a	ny:																				
#1	Relir	quis	she	d B	y: (8			Ť.v.		- 1	, i	1 0	13	4 .		Date:	1		inquished)				Date						iishe		/: (S	ig)			Date:	
Co	mpar	ny N	am	e :		f. :	1 ;	-				111	41.	-		Time:			any Name						Tim			\dashv			Nam						Time:	
#1	Rec	eived	В	y: (S	Sig)				_							Date:			ceived By:						Dat			一			ed By		ig)				Date:	
c₀	mpa	ny N	am	e:												Time:		Compa	any Name	:					Tim	e:		(om	any	Nam	e:			· · · · · · · · · · · · · · · · · · ·		Time:	

Note (1): If "N" lab will hold samples to await remainder of project-maximizing batch size and minimizing QC ratio; if "Y" lab will begin processing batches now. Note (2): Samples stored 60 days after date report mailed at no extra charge. Note (3): All lab copies of data destroyed after three years.



CHAIN-OF-	3TODY RECORD	No.	

		_					~_							CHA	N-O	F-	3TC	DDY F	RΕ	CC	R	D								N	ο.	37 II.		
	(Project	Name :		•		· · · · · ·	Client	Addres	s:	$_{i}A_{jk}$	1, 1	ar l	O _U	μ^{T}	12	ar .		Poi	nt-c	of-Co	onta	ct :		
	ас					ty A				orp.			DA 6)a; T	War.	\	T.	↓V.		117	14,XJ							3	PACE		
		5				on <i>A</i> C 21			9		Carrier	-	* * * * * * * * * * * * * * * * * * *					11.67							 -		_					:157.5)凌年		Ì
						33-5					Airbill I						23	lo Ofo			<u> į </u>						_				_	plete? Y or N (se		
											Sample	er Name	<u>: (/> lq</u>	7 T			Sampl	er Signa	ture) : .							_		_			c (PS) or Batch (B) C		
OX #	#1	1.	Surf	face	W	ater				rip Blank	:	BOX #2	A. HCI+		F. Ice O	•		BOX #3		F. Fi					Зох	#4		Н. Н М. М	-		E	3ox #5 C. CLP 3/90 S. SW-846	Ι, Ι	CLP
			_			ater			7. C						G. Other					U, U	ntin	erea						M. N L. L		um		W. CWA 600-	series	
			Lead Rins							Vaste other					1. ZnAc+									1				L. L	•			O. Other		
						nent	/ SI			/(I)CI			E. Unpre		1. 211710	110011	.00																	
_		_			-				1		1	Boy #1	Box #2		Box #4	Box #5	T	<u> </u>	·			1	1		Т	1	_	_	_		T			
										A		Box #1	500, 112		JUN 11-4	2000		Ì													ı			i
														Filtered / Unfiltered	Ę.		v	ပ္စ					-	<u></u>		l						Damarka / Ca		l-a
			am	•						ا			tive	5	၂ ပို) iti	Lab OUP						Ş	ŀ	ŏ	됩				ı	Remarks / Co (see Notes		ıs
(3 ch	ara	cte	ers	ma	axin	nur	n)		:Yea		.≚	Preservative	ed /	Expected Conc.	ğ	No. of Bottles	for	_	၂၂	ţċţ	ايرا	Sicid) SE	ig	51	3/1					(See Notes	2 (x 3)	
										Date:Year.	Time	Matrix	Pes	File	Exp	Method	2	Use for Lab QC (MS or DUP)	9	svoc	Pes	ЫCE	He	Metals / Mercury	5	ĕ	80							
T		1					4			17/17	14:13	1 4	10 A	1			100 100			16. T	; .													
				1		/				$^{1/2}I^{(6)}$	$[a_{i}]$		7.4				1.1			1.	1													
	,					7	1 7	1) (a)		11/14		- K- 2		, :			9							:										
	\top	T		1	1		1			/	:																							
				1						1	:						1																	
Ť			T	T						/	:																							
T			T				1			1	:																							
										1	:							<u> </u>																
										1	:																							
										1	:		ļ	<u> </u>	<u> </u>					<u> </u>	<u> </u>								i				·	
lien	ts S	eci	ai Ir	nstr	uct	ions	s:																								-	Temperature_		<u>°C</u>
ab:	Rec	ive	d in	Go	od	Cor	nditi	ion1	? }	or N	Descr	ibe Probl	ems, If a	ny:																				
1 R	elinqu	ishe	ed B	ly: (Sig)) -	ê . . •			<u> </u>		Date:	1	#2 Relin	nquished	By: (Sig)					Dat			\neg						(Sig	<u>)</u>		Date:	
	oany				- ::			i		<u> </u>		Time:		 	ny Name:						Tim							lame d By		a)			Time: Date:	
1 R	eceiv	ed B	ly: (Sig)						<u>-</u>		Date:		†	eived By:					• • •	Dat	-								9)				
Com	pany	Nan	ne:									Time:		Compa	ny Name:						Tim	ne:			Con	npai	ny N	lame	3;				Time:	

Note (1): If "N" lab will hold samples to await remainder of project-maximizing batch size and minimizing QC ratio; if "Y" lab will begin processing batches now. Note (2): Samples stored 60 days after date report mailed at no extra charge. Note (3): All lab copies of data destroyed after three years.



-9*4.					
HAIN.	OF-	CUST	YDO	RECORD	

No. 969993

	a di								I VI Corp.	Proje	ect l	Name : '∆⊖'	C5 24 S			Q.,		t Addre									<i>J</i> O	Poii	nt-o	of-C	onta	act:
' السلا					isor								V/K 3					A.C.								} (2)	1	Tele	 eph	one	No	1:14.1 E.T 1 E KOO
		50			NC					Carr								5(rub		. 4							\neg	Sar	npli	ing	cor	mplete? Y or N (see Note 1)
			1-8	300	-833	3-50	97					r Name	· Tomas Is	100 /	Gart.			ler Sigr		e :										_	_	ic (PS) or Batch (B) QC ?
BOX #1	-	1. 8	Surfa	се	Wat	er			Trip Blar			BOX #2	A. HCI +	Ice	F. Ice O	nly	Todinip	BOX #		F.	Filter				Вох	#4		H. H	ligh			Box #5 C. CLP 3/90 T. TCLP S. SW-846
		2. 0	Grou	ind	Wat	er		7.			l	l .	B. HNO3							U.	Unfil	rerec		-				L. L		um		W. CWA 600-series
			_eac		9				Waste				C. NaOl					ł														O. Other
			Rins		 :		Chia		Other		-		E. Unpre		I. ZIIAC	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	100															
		5. 3	SOIL	/ Se	dime	ent /	Siuc	ige							T = #4	I 5 46		+	_	$\overline{}$	1	_		$\overline{}$	7	- 1	1		_			
(9 (cha				ID		um))	Date:Year:	Time		Matrix Matrix	Preservative x x x x x x x x x x x x x x x x x x x	Bitered / Unfiltered x x	Expected Conc. og	Method x eq	No. of Bottles	Use for Lab QC (MS or DUP)	VOA	SVOC	Pesticide	PCB	Herbicide	Metals / Mercury	Cyanide	TOC / TOX	O&G / TPH					Remarks / Comments (see Notes 2 & 3)
		Γ	Γ	Τ	Т	Τ	Τ	Т	1 ,	- - -	-		<u> </u>			-	1															
		\vdash	\vdash	╁	+-	╁	╁╴	╁╴	 ' -	+				-	 	+	1		1	T	1											
		-	╀	+	+	-	╁╴	╁	+ ′	 					 	 	+	 	+	1	T	-	1	П								
		_	↓.	\downarrow	_	1	1	+	 	- :			 	 	 	 	-		+	+	+	+-	┼	Н				-	_	t^-	一	
								\perp	/	:			ļ		 	ļ	-		+-	+-	+	+	-	\sqcup			-	_	-	┢	├	
									/	:		<u></u>			ļ	ļ	ļ	<u> </u>		4	\downarrow	↓_		_			ļ	-		ļ	┡	
			T						,						l		<u> </u>			\perp		\perp	↓_				_			_	_	
	\vdash	†	†	\dagger	T	T	1	1	,	T .																						
 	十	+	╁	+	+	\dagger	+	+	 																			ŀ				
}-}-	H	╁	╁	+	+	+	+	╫	+ ′-	- -		 	1	 	 							T	Τ									
	<u> </u>	\dotplus	╀	+	+	+	+	+	+-'			 	+	 	-	-	 		\top	†		T	T				Γ	T				
		_		1.				\perp	/		-	<u></u>		1	1			l			1			.L	<u> </u>		<u> </u>	<u> </u>			<u> </u>	Temperature°C
Clients		-											15 0																			
						Con	ditio	n?	Y or N	De	scri	Deta:	ems, II a	T	inquished	I By: (Sic	1)				D	ate:			#3	Reli	inqu	ishe	d By	/: (S	ig)	Date:
#1 Reli				ly: (Sig)					<u></u>		Date: Time:		+	ny Name							ime:			1-			Nam				Time:
Compa												Date:			ceived By							ate:			1			ed B		ig)		Date:
#1 Rec				Sig								Time:		\neg	any Name						T	ime:			Co	mpa	any l	Nam	e:			Time:
Compa	any	Nar	me:									1									4:	. : £ 11	VII 1.	- L	.: H L	:			.cci	-a l	nato	shee now

Note (1): If "N" lab will hold samples to await remainder of project-maximizing batch size and minimizing QC ratio; if "Y" lab will begin processing batches now. Note (3): All lab copies of data destroyed after three years.

Note (2): Samples stored 60 days after date report mailed at no extra charge.



CHAIN-OF CUSTODY RECORD	CH	IIA	1-OF	ੇ'JST	ODY	RECORD
-------------------------	----	-----	------	-------	-----	--------

	a division of Liberty Analytical Corp. Project Name: Client Address: Cl													1,		Poi	nt-c	of-C	onta	act: 7	$C^{\mathcal{E}}$											
	a div	ision	of I	iber	ty A	nal	ytica	l Co	rp.	8	O Ţ	V 18 S					7. ;	Transfer	()	C13	. 1	()	<i>.</i>	4.3	$\hat{\theta}(\cdot)$		L					
		501						!		Carri	er:					_		4.167	, 46	ur'.		629									.:757 573 (
				', N(0-83						Airbi								books									_				nplete? Y or N (s	
				0 00						Sam	pler	Name	: (et chy	A T	<u> </u>		Samp	ler Signa					·	_		_			_		ic (PS) or Batch (B)	
BOX #1	1	. Sui	rfac	e Wa	ater		- 6	3. Tri	ip Blank	(BOX #2			F. Ice O			BOX #3		F. F				Bo	ox #4			High		ı	Box #5 C. CLP 3/90	T. TCLP
	2	2. Gro	ound	l Wa	ater			7. Oil						3 + lce						U. U	nfilte	ered		1					ium		S. SW-846 W. CWA 600	L corios
	3	3. Lea	acha	te					aste					H + Ice													L. L	.OW		-	O, Other	
		I. Rin							her		.			04 + Ice	I. ∠nAc+	NaOH +	ice														0. oute	
	5	S. Soi	1 / S	edin	nent	/ S	ludg	<u>e</u>			1		E. Unpr												_							
(9 (Sample ID (9 characters maximum)											Matrix xog	Preservative ox	Biltered / Unfiltered x x	Expected Conc. ox	Method Method	No. of Bottles	Use for Lab QC (MS or DUP)	VOA	svoc	Pesticide	РСВ	Herbicide	Metals / Mercury	TOC / TOX	O&G / TPH					Remarks / Co (see Notes	
																		Ì														
	\dashv	╁																1														
	_															+	╁	╁╌	-		-											
-								ı	1	:					l									\perp	\perp	\perp	L	<u> </u>		<u> </u>		
		\neg	+	┪	1	\neg		\neg														-					1					
			-		+		-+	+		╁╌	_		ļ <u>.</u>	 -	 	 	┼	<u> </u>	\vdash	-		\dashv	+	+	+	+	\vdash	一	\vdash	\vdash		
- 1 1	- {			-				1	1	<u>:</u>						<u> </u>	ļ		_	_			_	\perp	4	↓_	igspace	<u> </u>		_		
	\neg				1								}												Ì							
	\dashv	+	+	\dashv	\dashv	-		┪		 			-	ļ	<u> </u>	<u> </u>	†		t				\dashv	_	十	T	T					
			\dashv	\downarrow	4			\dashv		 :			 	 -	 		 		┼	-	Н	-	\dashv		+	╁┈	╀	╁	\vdash	-		
	1		-			l			1	:						<u> </u>	<u> </u>		<u> </u>						\perp	↓_	L	_	<u> </u>			<u> </u>
		寸	7	7	ヿ				,							-	1			ł						1						
		\dashv	\dashv	\dashv	\dashv		\vdash	-				 		-	1	† · · · ·		<u> </u>	\top						丁	1						
					\perp					:		l	<u> </u>		1		<u> </u>		1	<u> </u>							_	1		<u> </u>	Temperature j	°C
Clients	Spe	cial	Inst	ruct	tion	s:																									remperature	<u> </u>
Lab: Re	ecei	ved i	n G	ood	Co	ndi	tion	? Y	or N	De	scrit	be Probl	ems, if a	iny:							-			_								
#1 Relir	nquis	shed	Ву:	(Sig)							Date:		#2 Reli	nquished	By: (Sig)				Dat	te:		#	3 Re	linqu	ishe	d By	/: (Si	g)		Date:
	#1 Relinquished By: (Sig) D Company Name:													Compa	ny Name						Tin	ne:		- 4	Comp	any	Nam	e:				Time:
#1 Received By: (Sig) Date												Date:		#2 Rec	eived By:	(Sig)					Da	te:		#	3 Re	ceiv	ed B	y: (S	ig)			Date:
											Compa	iny Name	<u>:</u>	<u> </u>				Tin	ne:			Comp	any	Nam	ie:				Time:			



CH	ΔΙΝ	1-0	F.	S	TOD	Y RE	CORD	
U 11	CII.	4-U	5000			'I NL	COND	

No. 080987

Project Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name	T. TCLP
Sol Madison Avenue Carry NC 27513 Airbill No. Sampler Signature Project-specific (PS) or Batch (B) QC ?	T. TCLP
Airbill No.	T. TCLP
Sampler Name (T. TCLP
BOX #1 1. Surface Water 6. Trip Blank 2. Ground Water 7. Oil 3. Leachate 8. Waste 4. Rinsate 9. Other 5. Soil / Sediment / Sludge Box #1 Box #2 Box #3 Box #4 Box #5 C. CLP 3/90 Box #4 H. High M. Medium L. Low C. NaOH + Ice D. H2SO4 + Ice D. H2SO4 + Ice E. Unpreserved E. Unpreserved D. H2SO4 + Ice D. H2SO4 +	T. TCLP
2. Ground Water 7. Oil 8. HNO3 + Ice G. Other U. Unfiltered 3. Leachate 8. Waste 4. Rinsate 9. Other D. H2SO4 + Ice E. Unpreserved 5. Soil / Sediment / Sludge Box #1 Box #2 Box #3 Box #4 Box #5 Po that acters maximum) Po that acters maximum Po that	ents
3. Leachate 8. Waste 4. Rinsate 9. Other 5. Soil / Sediment / Sludge E. Unpreserved Box #1 Box #2 Box #3 Box #4 Box #5	ents
4. Rinsate 9. Other D. H2SO4 + Ice E. Unpreserved Sample ID (9 characters maximum) (9 characters maximum) / : Julia Juli	ents
Sample ID (9 characters maximum) Sample ID (9 characters maximum) Sample ID (9 characters maximum) Solver A control of Box #1 Box #2 Box #3 Box #4 Box #5 Box #5 Box #4 Box #5	ents
Sample ID (9 characters maximum) / : Box #1 Box #2 Box #3 Box #4 Box #5 Box #4 Box #5 Box #4 Box #5 Box #4 Box #5 Box #4 Box #5 Box #4 Box #5 Box #4 Box #5 Box #6	
Sample ID (bected Conc. Time Altrivide Commatrix Commatrix Commetals / Mercury Commetals / Mercur	
╶╎╎╎╎╎╎╎╎╎ ┼ ┈╎┈╎┈┼┈┼┈┼┈┼┈╎┈╎╸╎╸╎┈╎┼┼┼┼┼┼┼┼┼┼┼┼┼ ┼┼┼┼	
	
- - - - - -	
-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\	
Clients Special Instructions: Temperature	°C
Lab: Received in Good Condition? Y or N Describe Problems, If any:	
#1 Relinquished By: (Sig) Date: #2 Relinquished By: (Sig) Date: #3 Relinquished By: (Sig) Date: Company Name: Time: Company Name: Time: Company Name: Time:	
Company Name: Time: Company Name: Time: Company Name: Time:	
Company Name: Time: Company Name: Time: Company Name: Time:	



CHAIN-OF	STODY RECORD	

4.8

	COMPUCHEM Project N													CHA	<u> AIN-C</u>	<u>) -</u>	STO	<u>ו צטכ</u>	<u> </u>	<u>:C(</u>	<u> </u>	D								NO	
	,										Projec	t Name	:				Client	t Addres	ss :								P	oint	-of-	Con	tact :
	а	divi	isio	n of	f Li	bert	y Ar	alyt	ical	Corp.			80 0	as			Male	tolm P	firm	ed e							1	To	nv.	Pa	ce c
	_					iso					Carrie	r:		-			701	Town	Cer	nte	r: f	niv	е,	#6	00		T	elep	hor	ie N	lo.:757-873-8700
						NC -83					Airbill	No. :			· · · · · · · · · · · · · · · · · · ·		Nown	ort N	ows	3.5	ÚΨ	236	06				-				omplete? Y or N (see Note 1)
				1-0	OU	-03	J-U	ופנ					e: Ger	lyn Pe	rias			ler Signa									-				ific (PS) or Batch (B) QC ?
вох	#1	1		urfa		Wat	er		6.	Trip Blan			2 A. HCI		F. Ice O	nly	1	BOX #3			iltere	ed		В	ox #	4		Hig	_		Box #5 C. CLP 3/90 T. TCLP
						Wat				Oil				3 + lce		•						ered						. Me		1	S. SW-846
		3	3. Lo	eacl	hate	•			8.	Waste			C. NaO	H + Ice	H. NaHS	504 + lc	e										L.	Low			W. CWA 600-series
		4	l. R	insa	ate				9.	Other			D. H2S	04 + Ice	I. ZnAc+	NaOH +	· Ice	ļ													O, Other
		5	5. S	oil /	Se	dime	ent /	Slu	dge			<u> </u>	E. Unpr	eserved				<u> </u>						$oldsymbol{ol}}}}}}}}}}}}}}}}}$							
				-						1		Box #1	Box #2	Box #3	Box #4	Box #5		Τ	1		ГТ	T	\top	Т	T	Т	Т	Ι.	4	\top	T
(1										Date:Year	Time	Matrix	Preservative	Fittered / Unfittered	Expected Conc.	Method	No. of Bottles	Use for Lab QC (MS or DUP)	VOA	svoc	Pesticide	PCB	rier Diolae	Metals / Mercury Cvanide	TOC/TOX	0&G / TPH					Remarks / Comments (see Notes 2 & 3)
- 1 .										141,6	y 11.31.		\$7.55	C. 3-1		()			Π		4		Ī		Т		2	9			
+	+	╁	\dashv	_	\vdash	\vdash	╁	+	+	 '	 • • •	j. "	<u> </u>			ļ	 		╁╴		H	+	╁	十	\dagger	+	1.2	- 5,	+-	╁╴	
_	\perp	\perp	\downarrow		_	$oldsymbol{ol}}}}}}}}}}}}}}$	L	L	1		 :	ļ	ļ	ļ		ļ			<u> </u>	ļ	Ш	4	4	_	╀	\perp	1	\perp	\downarrow	┶	
-		-				1				1	1 :		1													1					
	┪	\dagger			一	T	T	✝	†	†		 	1					1				\top	1	\top	T	\top	T	\dagger		\dagger	
+	- -	4	\dashv		L	╀	╀	╁	╀	+-	+ :	 	ļ						├-	-	Н	\dashv	+	+	+	┿	┼-	-	-	╁	
		ļ								/	:													_							
	Т	Ī					Γ		T	,	Ι.												T					Т			
\dashv	╁	+	\dashv		┝	╁	╁	╁	╁	+ ′	+	 	+	 	 	l	 	 	\vdash	\vdash	┰		+	+-	+	╁	+	╁╌	╁╌	╁	
					L		L		L	1	:			ļ	<u> </u>				_			\perp			╽.		上		┖	L	
	ļ						l	İ	1	,								Ì				-					1				
\dashv	╅	+	1		_	\vdash	†	\dagger	╁	 	-	+			 						\Box	\top	\dagger	+	T	+	╁	\dagger	+	1-	
+	\bot	4	_		<u> </u>	\vdash	╁	┼	+	 	 	ļ		ļ	1		ļ	ļ	-	\vdash	\vdash		+	-	+	-	-	╁	╀	╁	
										1	:													1	1						
Clien	lients Special Instructions:																											•			Temperature°C
											Descr	ibe Probl	ems, If ar	ny:																	
	1 Relinquished By: (Sig)									1.1		Date: 1	347	#2 Relin	quished E	By: (Sig)					Date			#3	B Re	linqu	iishe	ed By	/: (S	ig)	Date:
	company Name:										<u> </u>	Time:	Maria de la companya de la companya de la companya de la companya de la companya de la companya de la companya		y Name:	<u></u>					Tim	e:	_	\top		any l			•	. ,	Time:
#1 Re												Date:		1	eived By: (Sig)					Date			\top		ceive			ia)		Date:
Company Name:									•		Time:		1	ny Name:					-	Tim			1		any l		<u> </u>	3)		Time:	
	mpany Name:														,									_1~	٠,,,,	7		٠			I IIII E.

Note (1): If "N" lab will hold samples to await remainder of project-maximizing batch size and minimizing QC ratio; if "Y" lab will begin processing batches now. Note (2): Samples stored 60 days after date report mailed at no extra charge. Note (3): All lab copies of data destroyed after three years.



Terms of Comment of the second

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes? Compliance Monitoring

Client Name										Clier					_								
Address:					1 1 1 A	<u> </u>	"1	, iv	/ ۱ . ۱	,, ,,, ,		·	L_{YM}	C /4	<u>(</u> 47)				<u> 97. </u>				
City/State/Zip Code:					,										_	Р	roject #	:			411		
Project Manager:															_ Si	te/Loca	ation ID	:					State:
Telephone Number:			- 1		<u> </u>		F	ax:							_	Re	port To	:	$\mathcal{N}_{i} \mathcal{N}_{i}$	A. p. e.	(, <u>r</u>	25 8 1	
Sampler Name: (Print Name)																	- /						34. × 3
Sampler Signature:															_	ć	/ Quote #	:				PO#:	
					Matrix	Pre	serva	ation	&#</th><th>of Co</th><th>ontai</th><th>iners</th><th></th><th></th><th></th><th></th><th>Anal</th><th>ze For</th><th></th><th></th><th></th><th></th><th></th></tr><tr><th>TAT Standard Rush (surcharges may apply) Date Needed: Fax Results: Y N SAMPLE ID</th><th>Date Sampled</th><th>Time Sampled</th><th>G = Grab, C = Composite</th><th>Field Filtered</th><th>SL - Sludge DW - Drinking Water GW - Groundwater S - Soil/Soild WW - Wastewater Specify Other</th><th></th><th>НСІ</th><th>NaOH</th><th>H₂SO₄</th><th>Methanol</th><th>None</th><th>Other (Specify)</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>QC Deliverables None Level 2 (Batch QC) Level 3 Level 4 Other:</th></tr><tr><th></th><th>e dist</th><th></th><th></th><th></th><th>()</th><th>2</th><th></th><th></th><th></th><th></th><th>ر د د</th><th></th><th></th><th></th><th>i i</th><th>į</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>]</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td>ļ</td><td>ot</td><td></td><td><u> </u></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td><u> </u></td><td>ļ</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Calabara Vil</td><td>(- </td><td><u> </u></td><td>1_</td><td><u> </u></td><td><u> </u></td><td></td><td></td><td></td><td></td><td></td><td><u>(</u></td><td></td><td></td><td>- 1 - 1 - 1</td><td>ļ</td><td><u></u></td><td>1</td><td>1</td><td>ļ</td><td></td><td>ļ</td><td></td><td>Ý</td></tr><tr><td></td><td></td><td> </td><td>+</td><td> </td><td> </td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>ļ</td><td>ļ</td><td>ļ</td><td><u> </u></td><td>ļ</td><td>igwdown</td><td></td></tr><tr><td></td><td></td><td>ŀ</td><td>┼</td><td>\sqcup</td><td></td><td>Н</td><td></td><td>-</td><td>\dashv</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>ļ</td><td> </td><td></td><td>ļ</td><td> </td><td></td></tr><tr><td></td><td></td><td></td><td> </td><td>\vdash</td><td> </td><td></td><td></td><td> </td><td>\dashv</td><td>\dashv</td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td> </td><td>-</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td> </td><td>╁─</td><td>\vdash</td><td></td><td>H</td><td></td><td>-</td><td>Ŧ</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td> </td><td>-</td><td> </td><td><u> </u></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td><u> </u></td><td>\vdash</td><td></td><td></td><td></td><td></td><td>\dashv</td><td></td><td></td><td>\dashv</td><td></td><td></td><td></td><td></td><td></td><td></td><td> </td><td></td><td> </td><td>-</td><td></td><td></td></tr><tr><td>Special instructions:</td><td></td><td></td><td>•</td><td></td><td></td><td> <u> </u></td><td></td><td>L</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td><u>. </u></td><td><u> </u></td><td>I</td><td><u> </u></td><td>LABO</td><td>Init La</td><td>RY CO b Temp:</td><td></td><td>TS:</td></tr><tr><td>Relinquished By:</td><td></td><td>Date:</td><td>1</td><td>Time</td><td>(v()</td><td>Rec</td><td>eive</td><td>d By:</td><td>:</td><td></td><td></td><td></td><td>-</td><td></td><td>Date:</td><td></td><td>Time:</td><td></td><td></td><td>dy Seal</td><td>ls: Y</td><td>N</td><td></td></tr><tr><td>Relinquished By:</td><td></td><td>Date:</td><td></td><td>Time</td><td>3:</td><td>Rec</td><td>eive</td><td>d By:</td><td>:</td><td></td><td></td><td></td><td></td><td></td><td>Date:</td><td></td><td>Time:</td><td></td><td>Bottle</td><td>s Supp</td><td>lied by</td><td>TestAm</td><td>nerica: Y N</td></tr><tr><td>Relinquished By:</td><td></td><td>Date:</td><td></td><td>Time</td><td>a: </td><td>Rec</td><td>æive</td><td>d By</td><td>/:</td><td></td><td></td><td></td><td></td><td></td><td>Date:</td><td></td><td>Time</td><td></td><td>Metho</td><td>nd of S</td><td>hipmer</td><td>nt-</td><td></td></tr></tbody></table>														

Test/America

Nashville Division Phone: 61 c-0177 2960 Foster Creighton Fax: 615-726-3404 Nashville, TN 37204

PROPERTY CARLOW BUTCHER TO SEE

To assist us in using the proper analytical π. ___s, is this work being conducted for regulatory purposes? Compliance Monitoring

									_															
Client Name										lien	t#:				-				. 13 					
Address:					100					(.		. 2		<u> 15. i</u>	-	-		-						
City/State/Zip Code:	108.05.0 10.00	12.49. 		••											-	Pr	oject#:	(- 1-g	111			
Project Manager:	t age a second		11.5		11 11	100									_ Si	te/Loca	tion ID						State: _	
Telephone Number:	- 3375	. :			lar.		F	ax:							_		ort To:							<u> </u>
Sampler Name: (Print Name)	f_{χ}	1		17:											-	Invo	ice To	<u> </u>	464	$\{e^{i}\}$		14 15	. 7 (<u> </u>
Sampler Signature:					_										_	/c	uote#:					_ PO#:		
/					Matrix	Pre	serva	tion	& # c	of Co	ontaii	ners	C				Analy	ze For	:				\Box	
TAT Standard Rush (surcharges may apply) Date Needed: Fax Results: Y N SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	SL - Sludge DW - Drinking Water GW - Groundwater S - Soil/Solid WW - Wastewater Specify Other	-INO ₃	Ş	NaOH	42SO4	Methanoi	None	Other (Specify)										$^{\prime}//$		C Deliverable None Level 2 (Batch QC) Level 3 Level 4 Other:
I gorapaya	h.a			-	<i>6</i> ⊕ ≥		+-	-	1	-		Ų			1	;	1	Gib-	38					. 1 (II 4.
<u></u>	121 131 1						\Box		1									· *	1	1	1			
1						2					7				1			,						
, mask(f)					1												;	L				I		
A. A. A. A. A. A. A. A. A. A. A. A. A. A	11/14	Heat			1 10						\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\									<u> </u>				
	,							_	ightharpoonup	ightharpoonup						<u></u>	.						<u> </u>	
TOWN GAR			<u> </u>					_									<u> </u>	ļ	<u> </u>	<u> </u>				
		<u> </u>		<u>. </u>		l									<u> </u>			<u>L</u>	ļ.,,					
Special Instructions:																			LAB		DRY CC ib Temp	OMMEN o:	115:	
and an of the state of the stat																				Rec I	ab Tem	ın.		
), A 1	7.	(A) \sigma_{ij}	100	T(. dvŽ	Τ					`				Ì		T		1					
Relinquished By:	1	Date:		Time		Rec	eive	d By:	<u> </u>						Date:		Time:			ody Sea es Supr			l N. nerica:	/A Y N
Relinquished By:		Date:		Time	e:	Red	eive	d By	:						Date:	····	Time:				,			<i>/-</i>
Relinguished By:		Date:		Time	e :	Red	eive	ed By	ŗ.						Date:		Time:		Meth	od of S	hipme	ent:		



Nashville Division Phone: 615-726-017, 2960 Foster Creighton Fax: 615-726-3404 Nashville, TN 37204

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes? Compliance Monitoring

Client Name									. '	ilerات)(#:											
Address:		المراجع المراجع			34 Th 4		Y.,				j:		<u> </u>		Proj	ject Nar	ne:					
City/State/Zip Code:		1 <u>.1.</u> 5.												<u>_:</u>		Projec	t#:		5.5	13.7		
Project Manager:	***************************************	************													Site/Lo	ocation	ID:					State:
Telephone Number:		De a	. ()	<u> </u>	1		. F	ax:					: · 			Report						
Sampler Name: (Print Name)		201		75.	<u> </u>										ı	Invoice	To:		<u> </u>	1/1	74 j	Town ATT TWO
Sampler Signature:														_		Quote	e #:				_ PO#:	
					Matrix	Pre	serva	ation	&#</th><th>of C</th><th>ontai</th><th>ners</th><th></th><th></th><th></th><th>An</th><th>alyze F</th><th>or:</th><th></th><th></th><th>Ţ</th><th>OC Poliverables</th></tr><tr><th>TAT Standard Rush (surcharges may apply) Date Needed: Fax Results: Y N SAMPLE ID</th><th>Date Sampled</th><th>Time Sampled</th><th>G = Grab, C = Composite</th><th>Field Filtered</th><th>SL - Słudge DW - Drinking Water GW - Groundwater S - Soil/Soild WW - Wastewater Specify Other</th><th>HNO3</th><th>IOH</th><th>NaOH</th><th>H₂SO₄</th><th>Methanol</th><th>None</th><th>Other (Specify)</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>QC Deliverables None Level 2 (Betch QC) Level 3 Level 4 Other: REMARKS</th></tr><tr><th>Company of Company</th><th>1.444</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>ļ</th><th></th></tr><tr><td></td><td></td><td><u> </u></td><td>_</td><td><u> </u></td><td></td><td></td><td><u> </u></td><td></td><td></td><td>L</td><td>_</td><td>ļ</td><td></td><td></td><td>_</td><td></td><td></td><td></td><td></td><td></td><td></td><td>stand the</td></tr><tr><td>1</td><td>,</td><td> </td><td>ļ</td><td>├</td><td></td><td>↓_</td><td>ļ</td><td>_</td><td></td><td></td><td><u> </u></td><td>_</td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td></tr><tr><th></th><th>., i -:</th><th>11/16</th><th>44</th><th>ļ</th><th> '</th><th>+</th><th></th><th>_</th><th></th><th></th><th>1, 3</th><th>_</th><th></th><th>-</th><th></th><th></th><th></th><th></th><th>-</th><th></th><th>-</th><th></th></tr><tr><td>Notes Wes</td><td></td><td>-</td><td> </td><td> </td><td> </td><td>╀</td><td>_</td><td></td><td>-</td><td>-</td><td>_</td><td>-</td><td></td><td></td><td>-</td><td></td><td>-</td><td></td><td></td><td>+</td><td> -</td><td></td></tr><tr><td></td><td></td><td></td><td>+</td><td>-</td><td></td><td>├-</td><td></td><td></td><td>-</td><td></td><td>\vdash</td><td>\vdash</td><td> </td><td>+-</td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td><u> </u></td></tr><tr><td></td><td></td><td><u> </u></td><td>+-</td><td>╁</td><td></td><td>\vdash</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>+</td><td>+</td><td></td><td>+-</td><td>_</td><td>-</td><td>+</td><td> </td><td></td></tr><tr><td></td><td></td><td> </td><td>+</td><td>T</td><td></td><td>T</td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td>_</td><td>+-</td><td></td><td>_</td><td>_</td><td></td><td> </td><td>†</td><td></td></tr><tr><td></td><td></td><td>ļ</td><td> </td><td>İ</td><td></td><td>T</td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td>\top</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><th>Special Instructions:</th><th></th><th></th><th></th><th>•</th><th>•</th><th></th><th><u></u></th><th></th><th></th><th>·</th><th></th><th>•</th><th></th><th></th><th>•</th><th>•</th><th></th><th>LAE</th><th>Init L</th><th>ORY CO</th><th>:</th><th>ITS:</th></tr><tr><th>Relinquished By:</th><th></th><th>Date:</th><th>1105</th><th>Time</th><th>) (() ()):</th><th>Red</th><th>ceive</th><th>d By</th><th>/:</th><th></th><th></th><th></th><th></th><th>Date</th><th>:</th><th>Tim</th><th>ie:</th><th></th><th>tody Se</th><th>als: \</th><th>/ N</th><th>I N/A nerica: Y N</th></tr><tr><td>Relinquished By:</td><td>·</td><td>Date:</td><td></td><td>Time</td><td>e:</td><td>Red</td><td>ceive</td><td>d By</td><td><i>r</i>:</td><td></td><td></td><td></td><td></td><td>Date</td><td><u>):</u></td><td>Tim</td><td>ie:</td><td>_</td><td> •</td><td>,</td><td></td><td></td></tr><tr><td>Relinquished By:</td><td></td><td>Date:</td><td></td><td>Time</td><td>e:</td><td>Re</td><td>œive</td><td>ed B</td><td>y:</td><td></td><td>_</td><td></td><td></td><td>Date</td><td>):</td><td>Tim</td><td>ne:</td><td>Met</td><td>hod of</td><td>Shipme</td><td>ent:</td><td></td></tr></tbody></table>													



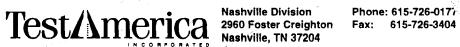
Nashville Division 2960 Foster Creighton Nashville, TN 37204

Phone: 615-726-0177 Fax: 615-726-3404

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?

Compliance Monitoring

Client Name									(Olier	nt #:													
Address	4 di				17/12	:	7		, <u> </u>	, _	; 	". ($\overline{\Delta}_{\lambda}$	129	- - 	Projec	t Name:	:	ST	Í	278	\$		
City/State/Zip Code:		i Paga Kangar						· .							•									
Project Manager:	* * * * * * * * * * *		nat 1		72k										- Si		ation ID:							• <u>, / ^</u>
Telephone Number:					r+ 33		F	ax:									eport To:						-	
Sampler Name: (Print Name)	r di e ga	10 pt	İ				<i>!</i>	_							-		· voice To:							
Sampler Signature:											<u> </u>						Quote #:	:				_ PO#:		
TAT Standard Rush (surcharges may apply) Date Needed: Fax Results: Y N SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	SL - Sludge DW - Drinking Water WGW - Groundwater S - Soil/Solid WWW - Wastewater Specify Other R	3				noi		(Specify)					Analy	/ze For						QC Deliverables None Level 2 (Batch QC) Level 3 Level 4 Other: REMARKS
1.2-4333	1. h. h.	10.00																					3(4 (1) 1 9 74
La Comment		11:161	777										2											
Contract Marsons	t v	1.50																						
7 - Pa - Pa - Pa - Pa - Pa - Pa - Pa - P		19.10																					41-40	
6 13 Million		15,13			3-4	Ц	_	_		_	لــا		1	+				<u> </u>	<u> </u>				p.A.	
		╂	H	\vdash	\vdash	\vdash	\dashv	\dashv	\dashv	\dashv		H	 -	<u> </u>	 '	 		├	┼	 				· 1.
<u> </u>						H	\exists	\pm	1		-			[ļ				 					
			\square	\square		\Box	$\overline{\mathbf{I}}$	1	-															
Special instructions:												1			<u> </u>					PRATOI Init Lab			TS:	
Relinquished By:		Date:		Time:	F (1)	Rec	eivec	d By:							Date:		Time:			dy Seals				N/A
Relinquished By:	 ·	Date:	_	Time:	<u>:</u>	Reci	eivec	d By:	<u>:</u>						Date:		Time:		Bottle	s Suppl	lea by	IestAm	erica:	Y N
Relinquished By:		Date:	j	Time	a· !	Rea	eive	d By	. .					,	Date		Time:		Metho	od of Sh	nipmer	ıt:		



To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes? Compliance Monitoring

Client Name									. (Clier	nt #:				_									
Address:			ia y . Ay i										10	1:	_	Project	l Name	:			200			·····
City/State/Zip Code:		15.					8.1								_	Pi	oject#	:		,	11			
Project Manager:							124	<u> </u>							Sit	te/Loca	ition ID	:					Stat	e: <u> </u>
Telephone Number:															_	Re	port To	:	A. Jan B	. [.				
Sampler Name: (Print Name)															_									
Sampler Signature:															-	C	Quote #	:			,i	_ PO#:		
					Matrix		serva	ation	8#	of Co	onta	iners					Analy	/ze For						<u> </u>
TAT Standard Rush (surcharges may apply) Date Needed: Fax Results: Y N	Date Sampled	ime Sampled	G = Grab, C = Composite	Field Filtered	SL - Studge DW - Drinking Water GW - Groundwater S - Soil/Solid WW - Wastewater Specify Other	HNO3	HCI	NaOH	2SO4	Methanol	None	Other (Specify)										$^{\prime}//$		QC Deliverables None Level 2 (Batch QC) Level 3 Level 4 Other:
SAMPLE ID	۵	<u> </u>	10	追	<u>ಷ ಥ ≽</u>	ᄩ	Ĭ	ž	Ŧ	ž	ž	ō		 	 	\leftarrow	┼	1-	+-	 	\leftarrow	 -	+-	REMARKS
	<u> </u>	 	1	├	<u> </u>	╀	-		_					ļ <u>.</u>			 	+	-	 	├	┼	 	
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	 	+	┼		╁	-		-	_	-	\vdash		ļ	 		 	 	 	 	\vdash	 	\vdash	
		 	+	-	 	┢			_	-	-			 	-		-	+	 	 	 		\vdash	
	2 - 4 + 1 <u>.</u>	11:	+	┼─		H	-			-	-	Н	<u> </u>		1	<u> </u>	 -	1		 		 		
			+-	 	 	╁╌	H				-	Н						†	1	 	<u> </u>	·		
	11		+	 		╁╌				-	一	Н				<u> </u>	,	,			1	· · · · · ·		
* * *			†			T		-				П										1		
		İ	╁┈	T																				
			\top			Г																		
Special Instructions:					•														LABC	Init La	RY CC b Temp ab Tem		ITS:	
Relinquished By:		Date:		Time):	Red	ceive	d By	<i>r</i> :						Date:		Time:				ls: Y lied by	N TestAn		N/A : Y N
Relinquished By:		Date:		Time	e:	Red	ceive	d By	<i>r</i> :						Date:		Time:		4					
Relinquished By:		Date:		Tim	e:	Re	ceive	ed B	y:						Date:		Time:		Metho	od of S	hipme	nt:		



To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes? Compliance Monitoring

Client Name									C	Clien	t#:		···		_										
Address:	وأستو المراز	in the same		4.	<i>: </i>								y.	1	_	Project	Name:		1,1	;					·
City/State/Zip Code:				1.											_							. 1			
Project Manager:	. "			<u> </u>			¥ +		_						Sif	te/Loca	ition ID:				,		State	: <u>i</u> i i	<u> </u>
Telephone Number:	10 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	. 4 . 4	. /	-	1.0	٠.	F	ax:			,						port To:			_	-				
Sampler Name: (Print Name)															_	Inve	oice To:	·.	: 1	19 ¹⁵ 4	1 1 1	ĺ		City L	(interpretation)
Sampler Signature:														-	_	C	Quote #:					PO#			
		т			Matrix		serva	tion	8,#(of Co	ontai	ners				,	Analy	ze For:	7		,		,	QC Deliver	ahlae
TAT Standard Rush (surcharges may apply) Date Needed:	Q	X	= Composite		W - Drinking Water ater S - Soil/Solid ater Specify Other							($^{\prime}$ $/$	$^{\prime}$ $/$		$^{\prime}$ $/$		None Level 2 (Batch Q Level 3	2 (C)
Fax Results: Y N SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C =	Field Filtered	SL - Słudge DW - [GW - Groundwater WW - Wastewater	HNO3	HCI	NaOH	H₂SO₄	Methanol	None	Other (Specify)												Other:	1
The state of the s	11/16	60 - 7	ζ,										7.	7	1		*	17							
																							1, ;	y francisco	
		4 19	1, -		3	L							1,5									ļ		*	
																			<u> </u>						
						L								ļ					<u> </u>	<u> </u>				 	
	,		$oldsymbol{ol}}}}}}}}}}}}}}}}}}$			L		\dashv	\dashv	_	_									ļ	ļ				
			_						_	_	_				ļ		ļ	ļ	ļ	ļ					
			<u> </u>					_	_	_	_	_					ļ			ļ		- i			
			ļ				_	_	4	_		4							ļ	 	 		·	<u>.</u> ,	
Special instructions:		<u> </u>				<u> </u>		J	i									L	LABC	Init La	RY CO b Temp: ab Tem		TS:		
Relinquished By:		Date:		Time		Rec	eive	d By	:						Date:		Time:			dy Sea s Supp		N TestAn		N/A Y N	
Relinquished By:		Date:		Time	<u>:</u>	Red	eive	d By	:						Date:		Time:								
Relinquished By:		Date:		Time	9 :	Red	eive	ed By	y :						Date:		Time:		Metho	od of S	hipme	nt:			



	СомриСн	IFM	. ; '	ا نبره		CHA	IN-O	F-\				0	RD	<u> </u>					Poin	<u>.</u>		O. 3822
	a division of Liberty Analyti	cal Corp.	Project	Name :	25. E	1.6	90x	j		Addres:		re.	()	ert i				⊣'				461 CC
	501 Madison Avenu	ie .	Carrier	<u> </u>	<u> </u>	<u> </u>		-		VPURI								<u></u>			,	No.1: 164)59 5 5 100
	Cary, NC 27513		Airbill N			-						-1-	1									complete? Y or N (see Note 1)
	1-800-833-5097		Sample	r Name	: [[1]		1 / 1/2 //	\mathcal{N}_{j}		er Signa					<i>J</i> /	<i>></i> =	10 a. m.				-spe	ecific (PS) or Batch (B) QC ?
BOX #1	1. Surface Water	k	BOX #2			F, Ice On	•		BOX #3			tered nfiltere			Box	#4		Н. Н М. М	-	1100	Box #5 C. CLP 3/90 T. TCLP S. SW-846	
	2. Ground Water	7. Oil 8. Waste			B. HNO3 C. NaOł		G. Other		<u></u>		·	J. Uf	milere	a d	-				vi. ivi L. La	-	uiii.	W. CWA 600-series
	Leachate Rinsate					I. ZnAc+l								- {							O. Other	
	5. Soil / Sediment / Slud			E. Unpre					! 													
(9	Sample ID characters maximum	Date:Year.	Time	Matrix Matrix	Preservative xox	Bitered / Unfittered x x x x x x x x x x x x x x x x x x x	Expected Conc. P#	Wethod	No. of Bottles	Use for Lab QC (MS or DUP)	VOA	SNOC	Pesticide PCR	Herbicide	Metals / Mercury	Cyanide	TOC / TOX	O&G / TPH				Remarks / Comments (see Notes 2 & 3)
	W - W W 0 7	$ \cdot $	7 k:00	5	}	1.1		Ĭ.		<u></u>	ţ	2	100						1	į		
	WE BY WIND		915.4	(5)	}.	1 1000		Ţ	-7	ĺ	1	Ź	1						1	i,	ì	
	T 10 00 (2) 9	11/2	9 15. 15	5				74.7	7		}	1	1						and the second	-		
1 N 1	10 F9 FV X / 7	 	(1) i	15					7			7)								1	a partie	
	20 10 10 10 10 10 10 10 10 10 10 10 10 10		1		177	1.1	 		-7		1	2			T				1	1		
	A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	 	1 14:44	+->	-	11/	-	<u> </u>	 	 	\vdash	\dashv	+	+	T						Н	

					Temperature°C
Clients Special Instructions:					
Lab: Received in Good Condition? Yor N Des	cribe Problems, If a	iny:			
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Date:	#2 Relinquished By: (Sig)	Date:	#3 Relinquished By: (Sig)	Date:
#1 Relinquished By: (Sig)	11 0	Company Name:	Time:	Company Name:	Time:
Company Name: Market Company Name:	Time:		Date:	#3 Received By: (Sig)	Date:
#1 Received By: (Sig)	Date:	#2 Received By: (Sig)		N ₆₃ ,	Time:
	Time:	Company Name:	Time:	Company Name:	Time.
Company Name:					



~		\sim –	OTOD)	'RECORD	
· H	I A I NI.	./ II		RELURI	
_		· O I · · ·			

	-			-	w + 4		.	.	Λ				CHA	<u> </u>	<u>F-</u>	STC	DY F	<u> </u>	<u> </u>	<u> KI</u>	<u>ر</u>								10.	
	ノ	V	IVI	ľ	U		H	L	VI.	Project	Name	:					Addres													act:
a	livi	sior	of	Libe	erty.	Ana	lytic	al C	orp.			80 DR	S			L	olm Pi	_											eac	
	5						enue	9		Carrier	: 1	105				701	Lown C	en:	ter	ni	dve	,	#60	()						757-873-8700
					NC 2 333-					Airbill I	lo. :					Newpo	ort Ne	ws	, Ţ	A 2	2360	6					_			mplete? Y/or N (see Note 1)
			,-ot	,0-0	,,,,,	JU	<i>.</i> ,			Sample	er Nam	e: Gerl	yn Pe	rlas		Sampl	er Signa	ture	:									_		ic (PS) or Batch (B) QC ?
OX #1	1.	. Sı	ırfac	e V	Vate	r		6. T	rip Blank		вох	#2 A. HCI +	Ice	F. Ice O	nly	-	BOX #3		F. F	iltere	d		Во	x #4		H. F	High	1	ł	Box #5 C. CLP 3/90 T. TCLP
	2.	Gr	roun	dν	Vate	r		7. O	il					G. Other			1		U. U	Infilte	red							lium	İ	S. SW-846
			ach						Vaste					H. NaHS			1									L. L	.ow		İ	W. CWA 600-series
			nsa						Other		1			I. ZnAc+	NaOH +	Ice	1						1							O. Other
	5	Sc	oil / S	Sed	imei	nt / :	Slud	<u>зе</u>			<u> </u>	E. Unpr					<u>. </u>						<u> </u>			_				
(9 ct	Sample ID (9 characters maximum)										Box	Preservative on the servative and the servative	Biltered / Unfiltered x	Expected Conc. 98	Box #5	No. of Bottles	Use for Lab QC (MS or DUP)		ပ္	Pesticide	PCB	Metals / Mercury	ide	TOC / TOX	3/TPH	2 020	1. The Control of the	2001		Remarks / Comments (see Notes 2 & 3)
	Date:Y)ate:	Time	Matrix	Pres	File) Š	Method	<u>8</u>	Use (MS	Š	svo	Pest	2 1	Z Z	Sal S		080	\\ \	. ()	6/1		
/ Mr												Ç	Ŋ		0	And the same of th		$\sqrt{}$							****		1	1		
	1	1	7						,																					
(Ad)	ni g	. *	q			-	 	\vdash	17 410) 	1	F	W		0	C		X		П		T				X	X	X		
	+	\dashv	*		-		 	-			+-		 	†	55.							T	1	1						
7 84	1.		,		├	-	-	-	11/2	1		6	LA		U		ļ	X		П		1	Ť	\top	T	×	Įх	×	T	
*> / 1 1/		-	٥	_	-	-	-	-	18/14	14:22	**			-	-	1-1-			\vdash	H		\dagger	\dagger	+-	\dagger	1	T	1		
	4	_			<u> </u>	<u> </u>	<u> </u>	L		 : -	┼		<u> </u>	+-	-	-		┼	\vdash	H	\dashv	+	╁	╁╴	+	+	╁	\dagger	╁	
	\downarrow			_	_	L	$oxed{oxed}$		/	<u> </u>	_		ļ	 	<u> </u>	<u> </u>	 	┼-	-	\vdash	+	+	+-	╁	╀	╀	╁	+	╀	
	\perp						_		/	<u> </u>	ļ		ļ	 		 	 	-	-			+	+-	+	\perp	+	\perp	\vdash	╀	
	1								1	<u> : </u>			<u> </u>	_	<u> </u>		<u> </u>		_	\sqcup		\downarrow		\downarrow	╀-	\perp	-	╁	╁	
\prod	,							/	<u> </u>			<u> </u>		<u> </u>	<u> </u>	<u> </u>	1_									L	\perp			
Clients Special Instructions:													<u>;</u>																	Temperature°C
Lab: Red	ab: Received in Good Condition? Y or N								Y or N	Desc	ribe Pro	blems, if a	ny:																	
#1 Relina	1 Relinquished By: (Sig)							R		Date	a lute	#2 Rel	inquished	By: (Sig)				Dat	e:							y: (S	ig)	Date:	
Company Name: Malcalm Upland							6. C	Time	: 14 00	Compa	any Name						Tim			_	omp						Time:			
#1 Received By: (Sig)								Date	:	#2 Red	ceived By:	(Sig)					Dat	e:		一十	3 Re			-	sig)		Date:			
Company Name:								Time) :	Compa	any Name	:					Tin	ne:		<u> </u> c	omp	any	Nam	ne:			Time			



CHAIN-OF	STODY RECORD	No. 468497
ect Name	Client Address :	Point-of-Contact :
AR-G-60- 707712	FOL TOWN CONTINUES STE GOO	Tony pace
rier :	NOWFORT NEWS, VA 23666	Telephone No. : (197) 873 8150
III Al-		Sampling complete? Yor N (see Note 1)

a	501 Madison Avenue Cary, NC 27513 1-800-833-5097									30 6	<i>U</i> :	<u> </u>	1 11 2			1000M													The State of the State of
	501 Madison Avenue Cary, NC 27513 1-800-833-5097									:					みづけ	I KUYI	N	: YVS	. , V	14	120	60	P						0.: (197) 873 8 100
									Airbill N		i		•																mplete? Y or N (see Note 1)
		1-6	5UU-	033	-50	31			Sample	r Name	:478.6	ign PC	14/615		Samp	ler Signa											_		fic (PS) or Batch (B) QC ?
BOX #1	2. 3. 4.	Grou Lead Rins	ind \ hate ate	Vate	r	;	7, Oi 8. W 9. Oi	il /aste		BOX #2	A. HCI + B. HNO: C. NaOI	- lice 3 + lice H + lice D4 + lice	F. Ice Office G. Other H. NaHS	604 + lo		BOX #3		F. Fi				Вс	x #4		H. H. M. M. L. L	Vled			Box #5 C. CLP 3/90 T. TCLP S. SW-846 W. CWA 600-series O. Other
(9 ct	Sample ID (9 characters maximum)								Time	Matrix	Preservative xx	Filtered / Unfiltered Box #3	Expected Conc.	Method	No. of Bottles	Use for Lab QC (MS or DUP)	VOA	svoc	Pesticide	PCB	Herbicide	Cvanide	TOC / TOX	O&G / TPH		Service and		*4.11 *****	Remarks / Comments (see Notes 2 & 3)
	3. Leachate 8. Waste 4. Rinsate 9. Other 5. Soil / Sediment / Sludge Sample ID (9 characters maximum)									2	4.5				1 1		, 2.	2.	7.				ĺ		1	5	Ì	_ annotes	A the Wall of Commence
	+	+	Ť																				Γ						York Charles
	+	+	├	+-			\dashv		 • • • •		 								\dashv	_	\dashv	\dagger	T						(mid tanta)
	\perp	\bot	$oxed{oxed}$		_	<u> </u>	_		:		ļ				 		╁		\dashv	\dashv	+	+	╁╴	┢	-	-			
								1	: _						<u> </u>				_				╄	_	L	_			
			T												1					ı			1						
 	+	+	╁	-		\vdash	┪		\vdash		†															Г			
\vdash	-	\perp	╀	-	<u> </u>	$\vdash \vdash$	\dashv		 :	├ -	 	<u> </u>	<u> </u>	 _	-	 	\vdash	\vdash	-	\dashv	\dashv	+	+-	╁╴	\vdash	\vdash			
									<u> : </u>	ļ	ļ	<u> </u>	ļ		-	ļ	╀			_		+	+	\perp	-	_	_	_	
1 1 1								1	:				<u> </u>	Å,			_	1	,					L				7	
	+-	十	÷	\top				į		1			1	. 9 4						ı									
	+	+	╁	+	-	Н			 •	1	 	 	†		1														
Clients S	Clients Special Instructions:									1	<u> </u>		!	l				1	1			<u> </u>	<u> </u>	.L	L	1	<u> </u>	Temperature °C	
Lab: Rec	ab: Received in Good Condition? Y or N Describe P									be Proble	ems, If ar	ny:										_							
#1 Reling	#1 Relinquished By: (Sig) Date:								Hunt.	#2 Relin	nquished	By: (Sig)					Date	e :		#:	Rel	inqui	ished	Ј Ву	: (Si	g)	Date:		
Company Name: Time: Time:									Compar	ny Name:						Tim	e:		c	omp	any f	lame	e:			Time:			
#1 Received By: (Sig) Date:									#2 Rece	eived By:	(Sig)					Dat	e:		#:	3 Re	ceive	d By	/: (S	ig)		Date:			
Company	Company Name:									Time:		Compa	ny Name:						Tim	ie:		С	omp	any f	Vame	e:			Time:

Note (1): If "N" lab will hold samples to await remainder of project-maximizing batch size and minimizing QC ratio; if "Y" lab will begin processing batches now. Note (2): Samples stored 60 days after date report mailed at no extra charge.

Note (3): All lab copies of data destroyed after three years.



#1 Received By: (Sig)

Company Name:

		•					٧							CHA	AIN-C)F	STO	DDY F	RE	СО	RI	D							Į	No		
	a division of Liberty Analytical Corp.										Project	Name :					Client	Addres	ss:	344	110	, S. V. I			N/ N	Ų	Poi				tact:	
	ac								Corp.			$\mathcal{L}(\omega)$	∮5 <u> </u>				W. 20	JULY 1	4 (3)	<u> </u>	17	1	1.76					1	1,?	M. J.	MA	
		5						ıe			Carrier	;																			o.: [[44]] [[4] [6]	
					NC -833						Airbill N									- ; ;							-	_			omplete? Y or N (see No	
											Sample	er Name	: 15 x 2	41111	\sqrt{H}		Sampl	er Signa					120	_						pec	ific (PS) or Batch (B) QC?	
OX#	1	1.3	Surf	ace	Wate	er		6.	Trip i	Blank		BOX #2	A. HCI		F. Ice O	•		BOX #3		F. Fill				Bo	x #4		H. I	-				T. TCLP
		2.	Grou	, pur	Wate	er		7. (G. Othe					U. Ur	rfilte	red					M. I			n	S. SW-846	
			Lead		9				Was			ļ			H. NaHS			}						1			L. L	.ow			W. CWA 600-series O. Other	
			Rins				٠.		Othe	'					1. ZnAc+	NaOH +	· ice							İ							O. Other	
		5.	Soil	/ Se	dime	ent /	Siuc	ige				<u></u>	E. Unpr					<u> </u>			_		一			_	_		-	_	<u></u>	
									1	4 l		Box #1	Box #2		Box #4	Box #5						İ	ı		1			- 1 - 1 - 1 - 1 - 1 - 1				
(9) ch	S ara	am cte	-		imi	um))		Date:Year	Time	Matrix	Preservative	Filtered / Unfiltered	Expected Conc.	Method	No. of Bottles	Use for Lab QC (MS or DUP)	VOA	svoc	Pesticide	PCB Herbicide	Metals / Mercury	Cyanide	TOC / TOX	O&G / TPH					Remarks / Comme (see Notes 2 & 3	
· Y.		Ti,	NA.	45		1					N_{ij}	2	Å v	7/1					7								-	1				
-1 2		10	[÷]	V.			(1)			1	(1):24	1				. 15 13	5		Ž.									}				
	J.	16.	N	4 6.	+	9		\dagger	1	1/1		7	A P.			7	The state of the s		9								1					
	1	. (1	1 17		1		1	1	183	15.30	1.0					1										į	1				
	\dagger				ļ.,	-	Î Ve.,	IN.	1.	721		7.				Ę	10		1								7)	Ą.				
	1	1,	1	 						·																						
+	\dagger	\dagger	-		T	\vdash	+	\dagger	T	,																						
+	+	\dagger	+	\dagger	\top	T	†-	\dagger	\vdash	,							<u> </u>							1								
+	\dagger	\dagger	T	+	+		\dagger		1	, ,	<u> </u>				1		1	1						T								
+	+	+	+	+	\dagger	\dagger	+-	+	+	<u>' </u>			1	<u> </u>	1								\top	T					1	\top		·
l_ Client	s Sı	pecia	al In	stru	ctio	.i ns:	1_	ل_			· · · · ·				l		<u> </u>	1			_1						·	_			Temperature	_°C
.ab: I							itior	1?	Y or	N	Descri	be Probl	ems, If a	ny:																		
11 Re	lingu	uishe	d By	y: (S	ig)				4.	_ <		Date:		#2 Reli	nquished	By: (Sig)				- (Date	:			Rei				y: (S	Sig)	Date:	
Comp	anv	Nam	e: i	Vi (a E.]	7.7	ij.	, ,	- 1		Time:	$j \cup 0$	Compa	ny Name:		_				Time	e:		C	ompa	ny N	lame	e:			Time:	

Note (1): If "N" lab will hold samples to await remainder of project-maximizing batch size and minimizing QC ratio; if "Y" lab will begin processing batches now.

#2 Received By: (Sig)

Company Name:

Note (2): Samples stored 60 days after date report mailed at no extra charge.

Date:

Time:

Note (3): All lab copies of data destroyed after three years.

#3 Received By: (Sig)

Company Name:

Date:

Time:

Date:

Time:



1. Surface Water

2. Ground Water

BOX #1

501 Madison Avenue Cary, NC 27513 1-800-833-5097

	CHAIN-OF	STODY RECORD	No. 68
EM cal Corp.	Project Name :	Client Address:	Point-of-Contact:
е	Carrier :	MENTENT MEINS, MA 33606	Telephone No. : (754) 613 8100
	Airbill No. :		Sampling complete? Y or N (see Note 1)
	Sampler Name: (5:55) (1) Perchas	Sampler Signature :	Project-specific (PS) or Batch (B) QC ?
6. Trip Blank	BOX #2 A. HCI + Ice F. Ice Only	BOX #3 F. Filtered Box #4	H. High Box #5 C. CLP 3/90 T. TCLP
7. Oil	B. HNO3 + Ice G. Other	U. Unfiltered	M. Medium S. SW-846

Time:

Date:

Time:

Company Name:

Company Name:

#3 Received By: (Sig)

Time:

Date:

Time:

	3. Leachate 8. Waste 4. Rinsate 9. Other													1	C.	. NaOI	+ Ice	H. NaH	SO4 + Ice	2	1						l			L	. Lov	٧		W. CWA 600-series	
	4. Rinsate 9. Other 5. Soil / Sediment / Sludge									r		_		D.	. H2SC	04 + Ice	I. ZnAc+	+NaOH +	Ice														O. Other	_	
L	5. Soil / Sediment / Sludge													Ε.	. Unpre	eserved				<u> </u>															
	(9	cha				ID nax		um))		Date:Year.	4 E		# xoB	1 8	Preservative x	Filtered / Unfiltered x	Expected Conc. 98	Method	No. of Bottles	Use for Lab QC (MS or DUP)	VOA	svoc	Pesticide	PCB	Herbicide	Metals / Mercury	Cyanide	100/10X					Remarks / Comments (see Notes 2 & 3)	
iA.	yrt.										1.4) 			Α,																				
1	M 7 - 7 M 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1												1,7.	× 4	1.3	7 1																1	1		
\ . . .												1	1	i.			111														1		T		
		ij								j	14			× 1.	17		Y pas														1		Τ		
	1		V.					10.3			1	:								1.1										1					
			-				1.	13			1	:	1.1																		;				
	. :					11/	1		17		<i> </i>	\			1		i garag		."											0					
											/	:							i i														1		
											1	:		ě.															T						
											/	:																	1		T	1			
Clients Special Instructions:														-																				Temperature °(<u> </u>
Lab: Received in Good Condition? Y or N Describ											N	Des	scrib	e Prob	lems	, If an	y:																		
#1 Relinquished By: (Sig)													Date:	$\left\langle 1 \right\rangle_{I}$		#2 Reline	quished E	By: (Sig)					Dat	e.		1	#3 Re	lingu	Jishe	ed B	/: (S	ig)	Date:		

Note (1): If "N" lab will hold samples to await remainder of project-maximizing batch size and minimizing QC ratio; if "Y" lab will begin processing batches now. Note (3): All lab copies of data destroyed after three years.

Company Name:

Company Name:

#2 Received By: (Sig)

Time:

Date:

Time:

in a days

Company Name:

Company Name:

#1 Received By: (Sig)



501 Madison Avenue Cary, NC 27513 1-800-833-5097

CHAIN-OF-	22001		•
LIVINI ()F	21/1110		1
, CIAIIN=() C =:	31001	NEGUIL	,
7 1 17 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<i>y</i> . • • .		

Sampler Signature :

Project Name: Point-of-Contact: Client Address: TONY PACE LARC 60 TOYIN COURT OR SIT FLO MONTOPPHONE VA 23606 Telephone No. : (151) 813 - 8100 Carrier: Sampling complete? Y or N (see Note 1) Airbill No.: Project-specific (PS) or Batch (B) QC ? Sampler Name : STW: NV NX1 16

No. 33 3

		Joanny	CITACILIC , () TO () TO	14:21:21	ripici Oignati	J1 C ,		1. 10,000 000	3 (1. 4)	0. Date: (5) a	
BOX #1	1. Surface Water	6. Trip Blank	BOX #2 A. HCI + Ice	F. Ice Only	BOX #3	F. Filtered	Box #4	H. High	Box #5	C. CLP 3/90	T. TCLP
	2. Ground Water	7. Oil	B. HNO3 + Ice	G. Other	_	U. Unfiltered		M. Medium	į	S. SW-846	
	3. Leachate	8. Waste	C. NaOH + Ice	H. NaHSO4 + Ice				L. Low		W, CWA 600-s	eries
	4. Rinsate	9. Other	D. H2SO4 + Ice	I. ZnAc+NaOH + Ice					ļ	O. Other	
	5 Soil / Sediment / S	hidae	F Unpreserved				1		1		

Γ										Т			Box #1	Box #2	Box #3	Box #4	Box #5								T			<u>.</u>	10			
	(9) ch				e ID max		un	1)		Date:Year:	Time	Matrix	Preservative	Filtered / Unfiltered	Expected Conc.	Method	No. of Bottles	Use for Lab QC (MS or DUP)	VOA	svoc	Pesticide	РСВ	Herbicide Metals / Mercury	Cyanide	TOC /-TOX	O&G / TPH	17 M. W. C. C.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	$F_{i}^{(i)}$	The state of the s	Remarks / Comments (see Notes 2 & 3)
			j								1	:						! !	. <u> </u>													
	. V		1	1.	1	ş	};	5 8	2		04/15	12:30	P)	4,8	7.1		5			Ĵ								1	1			
					1	i.	1	2 6	7		11	14.2	[] L.=	A Section	FAU		1. 									100		- A		1	2	ALAD
	N.			1/		4,								1. 1.	100		·	V.										2 4	1			
		ì					/s				/	:																				
											/	:							_											,		
					T			T			1																					
					T		Ī	1	1		1	:																				
			T								1	:				,	Ŷ.				"	Here										
T	1	T		T	1		T	1			1	:																				
h																								•	-				-			Temperature °C

Temperature Clients Special Instructions: Describe Problems, If any: Lab: Received in Good Condition? Y or N Date: #3 Relinquished By: (Sig) Date: #2 Relinquished By: (Sig) Date: #1 Relinquished By: (Sig) 1 14. Time: Company Name: Time: Company Name: Time: Company Name: #2 Received By: (Sig) Date: #3 Received By: (Sig) Date: Date: #1 Received By: (Sig) Company Name: Time: Time: Company Name: Time: Company Name:

Note (1): If "N" lab will hold samples to await remainder of project-maximizing batch size and minimizing QC ratio; if "Y" lab will begin processing batches now. Note (3): All lab copies of data destroyed after three years.



~Ц	A INL		•	TODY	RECORD	
$\supset \square$	MIIN-	UT-		וטטוי	KECOKD	

No.

E COMPUCHEM Project											SIUDI RECORD																										
a division of Liberty Analytical Corp.													1xc 60						Client Address :										Point-of-Contact :								
										согр.		LAKI							FULL DESTRICTION OF GUI									TON MICE									
	501 Madison Avenue Carrie										C	Carrier:							when	T N	- (V√	S. 1	A Į	36	(ilc:		_	Tele	epho	one	e No	o.:(147)(12 (14100					
1-800-833-5097 Airbill N										_															mplete? Y or N (see Note 1)												
											s	Sampler	Name	$: \langle \dot{\gamma} \dot{\gamma} \rangle$	H/H	Wer.	्रार्ट	Sampler Signature :										Pro	ject	-sp		fic (PS) or Batch (B) QC ?					
вох	#1	1	S	urfa	ce '	₩at	er		6.	Trip Blan	nk	- 1	BOX #2 A. HCl + Ice F. Ice Only												Box	K #4		H. H	ligh			Box #5 C. CLP 3/90 T. TCLP					
		2	2. G	rou	nd \	Vate	er		7.	Oil		ļ	B. HNO3 + Ice G. Other													M, Mediun						S. SW-846					
			3. Le			•				Waste			C. NaOH + Ice H. NaHSO4 + Ice															L. Lo	WC			W. CWA 600-series					
			I. R							Other		—	D. H2SO4 + Ice 1. ZnAc+NaOH +					Ice														O. Other					
		5	5. S	oil /	Se	dime	nt /	Sluc	ige				E. Unpreserved																								
													Box #1	Box #2	Box #3	Box #4	Box #5						T					- 1	A.								
												ĺ]	ᅙ				1			1	1	_			I	2									
			c a	mr	ماد	ID				}					llife	e e		S S	9 6					悥								Remarks / Comments					
	(9 cl			-			im	ım)	١	ان ا			Έ	aţi.	Filtered / Unfiltered	Expected Conc.		of Bottles	물질			<u>.</u>	a	₹		۱ĕ۱	ᇍ			Α,		(see Notes 2 & 3)					
	(0.0)							,		Date:Year:		<u>o</u>		Preservative		Š	Method	5	Use for Lab QC (MS or DUP)	 	ပ္ပ	֓֞֟֟֓֟֓֓֟֓֟֟֓֓֓֟֓֓֟֟֓֓֟֟֓֟֓֟֓֓֟֟֓֓֟֟֓֟֓֟֓֟	ğ. ğ	SE	ğ	်	6			.		(000 110000 _ 01 0)					
Date:							Ė	Matrix Preser			ă	ğ	<u>8</u>	S S	2	svoc		<u> </u>	\ <u>§</u>	Ö	인	8	1														
				: .	\ .		,	Ţ.		1/1	,	di:								3.4		1						Ŷ.	1								
				, 5	Ŋ.	Ŀ				1 3		rg. Tan	2° .	1	110			11				\perp			L				1								
				7		1				1/1		MAD.		EST Y	1.5			- 1 - 1 - 1)	1000	į	;						
	1			7.		1		Ţ.,		1				Ái .	1 -														4								
			, i				,	14.		7	1	h: 0	100	*	1.50													}	1								
\dashv	\top	\top	\dashv	_		1	2	 		1	+								ļ · · · · ·	П		1	1	Г				\neg	7								
\dashv	+	+	\dashv	_	-	┞	\vdash	+	H	-	+	·						 	 	H	\dashv	+	+		-		\dashv	\dashv	_								
\dashv	+	+	\dashv			├-		+-	╁	+ /-	+				ļ		<u> </u>			\vdash		-	+	 			-	\dashv	\dashv	_							
4	4	4	-			-	-	╀	-	1	-				<u> </u>	1		<u> </u>		-		+	+	┡	_	\square	\dashv	_		í.							
\downarrow	4	4				igspace	_	↓	╀	1	\downarrow	:	· ·		ļ ————	ļ	N. 1. N	ļ	ļ	\sqcup	_	4	+	ļ			_	\dashv	4		_						
							L			/	_L	:			<u>.</u>		<u>.</u>	<u> </u>													_						
Clie	nts S	pec	cial	Ins	tru	ctio	ns:										_															Temperature <u>°</u> C					
Lab	Rec	eiv	ed i	in G	600	d C	ond	itior	1?	Y or N	!	Describ	e Proble	ms, If an	ıy:						*				,												
7. (9/							#2 Relin	quished (By: (Sig)					Date:			#3	#3 Relinquished By: (Si					g)	Date:													
Company Name: Time:								*	Company Name: Time: C								1	mpar					_	Time:													
#1 Received By: (Sig) Date:											ived By: ((Sig)					Date:			 			ed By: (Sig) Date:														
Con	Company Name:							Time:		Compan	Time: Co								mpai	ıy N	ame:	:		Time:													

CompuChem 🤞 livision of Liberty Analytical Corp.

CHAIN OF CUSTODY

501 Madison Ave. Cary, NC 27513

Courier

•		• ;	
٠.	hill	NI_	
11	mi	INO	

7								1	hone	: 919-	3/9-4	100 F	ax 919	3/9-4()40			Samp	ling Co	omplete	7 Y C	M N						
Company Name M 介し(State Price Price Price		- ei	Project N	· ·	ر آرا	Ö	125	<u> </u>				\$ 1.0				. "						ww -	Waste				
Addition	town Cant	is.	Flow	Sampling	Location	57	·~~			**************************************		~u.,					فأور								e water diment			
Newport	Sampling Location Turnaround time																		TB - T RI - Ri									
Project Contact	Pace	Batch QC or Project Specific? If Specific, which Sample ID?														36.			36. V		WP - V O - Ot	Wipe	(4)					
Phone # 7 5 7	8738700	Are aqueous samples field filtered for metale? Y or N												4					5,4		0-0	. ,						
Sampler's Name	•	:		Are high	Are high concentrations expected? Y or N? If yes, which ID(s)?										Jin Control of the Co													
_	2011		Coll	lection Number of Preserved Bottles					lles	3																		
	Field ID	,	Date	Time	Matrix	# of	HCI	NaOH	NH03	H2SO4	MEOH)ther	>								- Ac							
	MW-12		blu	15:30	67~	3	7		-	<u> </u>	-		ノ							8								
		Ţ											7					. 7				# 1						
							. -										, 5-7 ;											
												1.1.					, .											
					and the second					-			#		3.7	1 4	4 11											
			The second	. *																								
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1										:					1					``		\prod				
															1,	7 17	-			1.7								
																						1						
•														41°, 11°, 1		5.0												
Sample Unpacked F	· * · · · · · · · · · · · · · · · · · · 				Cyanide s	samples cl	necked	for su	lfide &	chlor	ine? Y	or ŅA		1887	A STATE		KAW.				ras Dibili.	We fe						
Sample Order Entry					625 & Phenol samples checked for chlorine? Y or NA								Arrenda															
Samples Received i If no, explain:	n Good Condition?	Y or N		•	608 samples checked for pH between 5.0-9.0? Y or NA									and the second														
и по, схраші.																												
Relinquished by:	2 1	<u> </u>			Date/Tir		4	04	17:	3,	Rece	ived by	r:				1.12			Date/	Date/Time:							
Relinquished by:		-			Date/Tir	me:						ived by				·				1	Date/Time:							
Subcontact? Y or	N If yes, where?								Custo	odv Se	eal(s)	intact?	Y or 1	V	On Ice	? Y c	r N			Coole	r Temp	ı:			°C			

CompuChem a division of Liberty Analytical Corp.

Samples stored 60 days after date report mailed at no extra charge.

CHAIN OF CUSTODY

501 Madison Ave. Cary, NC 27513

Phone: 919-379-4100 Fax 919-379-4040

Page of L

Courier (ed (x

Airbill No.

Sampling Complete? Y or N)

Company Name	LCOLM PIRME		Project Na	\$\tau_1.		RS.	4.6					A									ww -	Waste Surface	e water
Address Turn	(p, 1-c Dr +1600 State VA 2ip 73606		Sampling			24				.31				. 34.5							TB - 7	rip Bl	
	State VA 21p 73606		Turnaroun	St c	Specific	If Sn	ecific.	which	Samo	le ID?											WP -	-	
Project Contact	MY PACE		Batch QC	or Project	= M	ered f	10/	n¶.	or N	1 1- (~)	u/msi										0-0	ther	
Phone # 157	573 8700		Are high								(s)?				*	- 3						<u>. 152</u> 	Ame.
Sampler's Name			<u> </u>	concentrat	ions expe	1				ed Bot		S											
		Colle 7001	ection		<i>"</i> 6						1	3											
	Field ID	Date	Time	Matrix	# of bottles	HCI	NaOH	NHO3	H2S04	МЕОН	Other								3	-			
	MM-12 mw-13	6/15	11:30	(724	3	3	-			8		<u> </u>								-	\forall	+	++
A Harris	MW-11 shar		14.00	1	+	+	├-			 		\ <u></u>	-					-				\top	##
	MH-10		15.31		-	H	-			·		V											
	MW-10/MS	1	15:40				-			1		~		1.64	ź								$\perp \perp$
	MW-10/MSD			N.										14/									$\downarrow \downarrow$
																		. Stime.				-	++
						_		1 1 1 1 1			9.52	1361 1301-2								+-		AG. 1	+
						-	1												1				++
			-	 												1.5						1 12 N	
							<u> </u>							1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	1				•	<i>i</i>		ig, Y	ا ناپريد
Sample Unpacked	and the second of the second o				samples													3 (1					3
Sample Order Ent Samples Received	ry By: I in Good Condition? Y or N				ples chec												18 19. (\$18)						e e e e e e e e e e e e e e e e e e e
If no, explain:																	19、1995年	Date	/Time	:			100
Relinquished by:				Date/I	ime: 6	<u> </u>	4	<i>5</i> , 5.	70	Re	ceived b							100	e/Time				
Relinquished by:	N If yes where?			Dawi				Cu	stody		s) intact		N	On I	ce? Y			Coo	ler Ter		ıotom	.	<u>°(</u>

CompuChem ivision of Liberty Analytical Corp.

CH' 'IN OF CUSTODY

501 Madison Ave. Cary, NC 27513

Courier	red	€

Airbill No.

Sampling Complete? Y or N

	<u> </u>						P	hone:	919-	379-4	100 F	ax 919	379-40	040			Sampl	ing Cor	mplete	? Y o	r(N)		V.,		
Company Name Address Froject Contact Contact	OLM PIRME JUNN CONFRED. State Zip PACE 73-820 TONG		Project Na Sampling Turnarour Batch QC Are aquec Are high o	Ind time	st Specific	? If Sp / retered f	ecific,	which wals? Y	Samp I	le ID?	MS レ		379-40	140			Sampl	ing Coi	mplete	, Y 0		GW - (WW - SW - S SO - S TB - T RI - R WP - Y	Waste Surfac Soil/Se Trip Bi tinsate Wipe	e wate ce wate edimer slank	er er
	Field ID	2w4	1	Matrix	# of	HCI	NaOH	NHO3	H2SO4	MEOH	Other														
	MW-06	6/16	10.54	()~	3	3						/										\sqcup		$oxed{oxed}$	
		1	11:0	ì	1	1		\$				<u>/</u>				,						\sqcup			
	MW-65 DUP	V	12.00	L	V	ب						/		*	1,17,1							Ш	\perp		
																		ė							<u> </u>
		÷		·																			\bot		
									,																
									:													П			
																					-				
		 -										 										П			
			 		<u> </u>		<u> </u>															\sqcap			
													1									П	\top	\top	
		Ĺ.		l		<u> </u>								L					J						
Sample Unpacked				1	samples c									···········											_
Sample Order Entr				625 & Phenol samples checked for chlorine? Y or NA 608 samples checked for pH between 5.0-9.0? Y or NA																-		—			.
Samples Received If no, explain:	in Good Condition? Y or N			OUS sam	pies check	ea tor	pH bei	ween	3.U-Y.U	JI X OI	INA		<u> </u>											• .	•
		<u>.</u>			1 mpor		77	. 4	16.														÷	. 	
Relinquished by:	1		• (me: Ju	re	16/1	<u>,u</u>	16:0	1	ived by					<u> </u>			Date/				•		_
Relinquished by:		1		Date/Ti	me:						ived by		NT .	Ò. T	V	- N	.		Date/	Time: er Temp					C
Subcontact? Y or	N If yes, where?							Cust	oay S	eai(s)	intact?	1 or	IN	TOPIC	e? Y	OF IN			LCOOL	1 1611)	<i>.</i> .				<u>~</u>

CompuChem division of Liberty Analytical Corp.

C''AIN OF CUSTODY

501 Madison Ave.

Cary, NC 27513

	Page		(
Courier	Fed	CX		1
Àirbill No.			~	

	er gemen and the Company of the Comp						I	Phone:	919-	379-4	100 F	ax 919	-379-4	040			Sampl	ing Cor	nplete	? Y o	r N			es des
City NCALAT Project Contact TONY Phone #		٠	Project N Sampling Turnarou Batch QC Are aquee	nd time or Project ous sample	A specific	? If Sp tered i	or met	als? Y	or N	1	r				· • · · · ·	*			Ì	7.0		WW - SW - SO - S TB - 7 RI - R	Waste Surfac Soil/Se Trip Bl tinsate Wipe	
Sampler's Name	um June		Are high	concentra	tions expe	cted?	Y or N	? If ye	es, wh	ich ID	(s)?			i										
		Coll	ection				Numbe	r of Pr	reserve	ed Bott	les] ∖∽		İ										
	Field ID	2uJ Date	1	Matrix	# of bottles	ЮН	NaOH	NHO3	H2SO4	МЕОН	Other	70/												
	MW- 69	40	11:00	64	3	3				۔		\												
_	MW- 68	i	13:00		1	1				*		1												
	MW- 41		13.30			\prod						~												
	MU- WILDA		1, 10									~												
			16:00							٠,										,				
	MW- 62 m MW- 63	¥	16:45	V							_	/												
												/												
) .1														÷,								
	•							1																
Sample Unpacked l	By:			Cvanide	samples cl	necker	for su	lfide A	chlo	rine? Y	or NA													
Sample Order Entr				1	enol sam																			
i -	in Good Condition? Y or N			608 samp	oles check	ed for	pH bet	ween :	5.0-9.0)? Y or	NA													
If no, explain:								1																
Relinquished by:	2 K 6	1/3	104	Date/Ti	me: 18	943				Rece	ived b	y:							Date/1	Γime:				1.0
Relinquished by:				Date/Ti	me:						ived b			·					Date/I	Γime:				
Subcontact? Y or	N If yes, where?							Custo	ody S	eal(s)	intact?	Y or	N	On Ic	e? Y o	or N			Coole	r Temp):			°C

Appendix C URS Data Validation Reports

QCS/AR Report 80th Division Reserve Site Fort Story, Virginia



URS

To:

Anthony Pace

Associate - Malcolm Pirnie, Inc.

MIB

From:

Peter R. Fairbanks

Mary E. Bitka

Sr. Chemist - URS

Project Manager - URS

Date:

April 10, 2003

Subject:

Organic/Inorganic Data Validation Report for 80th Division Reserve Site -

Fort Story, Virginia

December 3, 2002 - January 20, 2003 Sampling Event - Sample Delivery Group

Nos. Q2812, R2812, S2812, T2812, U2812, Q2849, and R2849

Data Validation Narrative

Thirty-three soil samples, twenty-three groundwater samples, four field duplicates, four matrix spike/matrix spike duplicate (MS/MSD) pairs, four equipment rinsate blanks, and seven trip blanks were collected on December 3, 2002 to January 20, 2003 at the 80th Division Reserve Site - Fort Story, Virginia. The samples were analyzed by CompuChem of Cary, North Carolina. The data were validated to United States Environmental Protection Agency (USEPA) Region III Levels M-2 and IM-1.

The data packages were reviewed following USEPA guidelines presented in Region III Modifications to National Functional Guidelines for Organic Data Review, September 1994; Region III Modifications to Laboratory Data Validation Functional Guidelines for Evaluating Inorganics Analyses, April 1993; and Region III Innovative Approaches to Data Validation, June 1995.

The text of this report only addresses those problems that affect data usability. The following appendices are included with this Data Validation Report:

Appendices

Appendix A - Sample and Analysis Summary

Appendix B – Glossary of Data Qualifiers

Appendix C – Laboratory Results (Form Is)

Appendix D – Support Documentation

Fax: 716.856.2545

Overview

Thirty-three soil samples, twenty-three groundwater samples, four field duplicates, four MS/MSD pairs, four equipment rinsate blanks, and seven trip blanks were collected on December 3, 2002 to January 20, 2003 at the 80th Division Reserve Site - Fort Story, Virginia. The samples were analyzed by CompuChem of Cary, North Carolina. The samples were analyzed for the following parameters (not all samples were analyzed for each parameter):

<u>Parameter</u>	Method No.
Target Compound List (TCL) Volatile Organic	
Compounds (VOCs)	8260B
TCL Semivolatile Organic Compounds (SVOCs)	8270C
TCL Pesticides	8081A
TCL Polychlorinated Biphenyls (PCBs)	8082
Target Analyte List (TAL) Metals	
(Total and Dissolved)	6010B/7470A/7471A
Arsenic and Iron (Total and Dissolved)	6010B

A sample and analysis summary is presented in Appendix A. The analytical results were reported in laboratory Sample Delivery Group (SDG) Nos. Q2812, R2812, S2812, T2812, U2812, Q2849, and R2849. The data packages were consistent with USEPA Contract Laboratory Program (CLP) requirements.

The data were validated to USEPA Region III Levels M-2 and IM-1. A glossary of data qualifiers is presented in Appendix C. The USEPA Region III hierarchy of qualifiers is as follows: "R", "B", "N", "L", "K", and "J".

All sample concentrations of target compounds/analytes were below the 10-day "Health Advisory Limits" listed in the USEPA Region III *Innovative Approaches to Data Validation*, June 1995.

<u>Summary</u>

The samples were successfully analyzed, with exceptions noted in subsequent sections of this report. Data that were determined to be unusable are discussed in the "Major Problems" and "Notes" section of this report. Copies of the validated laboratory results (Form IS) are presented in Appendix C. Supporting documentation is presented in Appendix D.

Major Problems

Major problems are those considered to have a serious effect on the usability of the data. The following data have been rejected ("R") due to severe quality control (QC) exceedances from the referenced methods.

• The VOC continuing calibrations (CCAL) associated with the groundwater samples (plus field QC blanks) exhibited a low (i.e., <0.05) relative response factor (RRF) for acetone. The non-detect acetone results for all groundwater samples (except GW-MW-117) and field QC blanks were rejected ("R"), while the detected acetone result for sample GW-MW-117 was qualified as biased low ("L"). Supporting documentation (i.e., Table D-1, laboratory Form 5 and 7) is presented in Appendix D.

• The SVOC CCALs associated with the several soil and groundwater samples exhibited a low (i.e., <0.05) RRF for atrazine. The non-detect atrazine results for all affected soil, groundwater, and equipment rinsate blank samples were rejected ("R"). Supporting documentation (i.e., Table D-2, laboratory Form 5 and 7) is presented in Appendix D.

Minor Problems

Minor problems are those that reflect biases identified during the data review, which may result in the qualification of sample results as estimated ("J/UJ"), biased low ("L/UL"), or biased high ("K").

- For soil sample SS-MW10-1, the laboratory performed the VOC analysis from a sample aliquot taken from a 4-oz. sample jar, rather than from the Encore®, because the laboratory was unable to preserve the Encore® sample within 48 hours of collection. As a result the VOC results were qualified as estimated ("J" and "UJ").
- The VOC analysis of soil sample SS-MW10-0 exhibited an elevated surrogate recovery for bromofluorobenzene (i.e., >131%) and a low internal standard (IS) recovery (i.e., <50%) for 1,4-dichlorobenzene-d4. The sample was not reanalyzed because the associated matrix spike duplicate (i.e., SS-MW10-0-MSD) exhibited an elevated surrogate recovery, therefore indicating matrix interference. The results were qualified as estimated ("J" and "UJ"). Supporting documentation (i.e., laboratory Form 2 and 8) is presented in Appendix D.
- The VOC analysis of soil sample SS-MW11D-4 exhibited low IS recoveries (i.e., <50%) for chlorobenzene-d5 and 1,4-dichlorobenzene-d4. The sample was reanalyzed with similar IS results. The associated results were qualified as estimated ("J" and "UJ"). Supporting documentation (i.e., laboratory Form 8) is presented in Appendix D.
- The VOC analysis of the 12/03/02 Trip Blank was performed outside of the technical holding time criteria (i.e., >14 days from date of collection) by 5 days. The results (all non-detect) were qualified as biased low ("UL"). Supporting documentation (i.e., chain-of-custody and laboratory Form 5) is presented in Appendix D.
- For the SVOC analysis of soil sample SS-SB03-1, the benzo(b)fluoranthene and benzo(k)fluoranthene peaks are unresolved. Hence, the total peak area within the retention time window of both compounds was used to calculate the concentration of each compound. Therefore, the results were qualified as estimated ("J"). Supporting documentation (i.e., quantitation report and ion chromatogram) is presented in Appendix D.
- All SVOC tentatively identified compounds (TICs) were qualified as estimated ("J").
- The pesticide/PCB analysis of samples SS-MW10D-4, SS-MW08-0, and SS-MW11D-4 exhibited high surrogate recoveries (i.e., >144%) for decachlorobiphenyl (DCB) on both the primary and confirmation columns. The detected sample results were qualified as estimated ("J"). Supporting documentation (i.e., laboratory Form 2) is presented in Appendix D.
- The pesticide/PCB analysis of samples SS-SB01-1 and SS-SB03-1 exhibited high surrogate recoveries (i.e., >144%) for DCB and tetrachloro-m-xylene (TCMX) on the

primary column (i.e., CLPEST). All detected sample results reported from the primary column were qualified as biased high ("K"). Supporting documentation (i.e., laboratory Form 2 and 10) is presented in Appendix D.

• The %D between the dual-column analyses was elevated above the QC limit (i.e., >40%D) for the following samples. The results were qualified as estimated ("J"). Supporting documentation (i.e., laboratory Form 10) is presented in Appendix D.

Sample	Compounds Qualified
SS-MW09-0	4,4'-DDD, 4,4'-DDT
SS-MW09-4	4,4'-DDD
SS-MW08-0	Endosulfan II, dieldrin
SS-MW08-1	Aldrin
SS-MW08-4	Dieldrin, endrin ketone
SS-MW10-4, SS-MW10D-4, SS-MW11D-4	4,4'-DDT
SS-MW11-0	beta-BHC, 4,4'-DDE
SS-SB01-4	Endrin aldehyde, endrin ketone
SS-SB02-4, SS-SB03-4, SS-SB04-0	Endosulfan sulfate
SS-SB04-4	Dieldrin
SS-SB05-1	Heptachlor, endrin ketone
SS-MW10-1	beta-BHC

- The pesticide/PCB analysis of sample SS-MW08-0 exhibited a linear range of calibration exceedance for dieldrin. The sample was not reanalyzed at a secondary dilution. Therefore, the dieldrin result was qualified as estimated ("J"). Supporting documentation (i.e., laboratory Form 1) is presented in Appendix D.
- The pesticide/PCB analysis of sample SS-SB05-0 exhibited a linear range of calibration exceedance for aldrin. The sample was reanalyzed at a secondary dilution, however, aldrin was not detected in the reanalysis. Therefore, the aldrin result was qualified as estimated ("J"). Supporting documentation (i.e., laboratory Form 1) is presented in Appendix D.
- The pesticide/PCB analysis of sample SS-SB01-1 exhibited linear range of calibration exceedances for aldrin and beta-BHC. The sample was reanalyzed at a secondary dilution, however, these compounds were not detected in the reanalysis. No further qualification was necessary because the aldrin and beta-BHC results were previously qualified due to surrogate outliers, as noted above. In addition, endrin aldehyde was detected in the secondary dilution, but not in the initial analysis. As a result, the endrin aldehyde result from the secondary dilution was transcribed to the initial analysis Form 1 and qualified "D" (result determined from a secondary dilution). Supporting documentation (i.e., laboratory Form 1) is presented in Appendix D.
- The pesticide/PCB analysis of sample SS-SB03-0 exhibited a linear range of calibration exceedances for aldrin and endosulfan sulfate. The sample was reanalyzed at a secondary dilution, however, these compounds were not detected in the reanalysis. Therefore, the

- aldrin and endosulfan sulfate results were qualified as estimated ("J"). Supporting documentation (i.e., laboratory Form 1) is presented in Appendix D.
- The pesticide/PCB analysis of sample SS-SB03-1 exhibited a linear range of calibration exceedance for aldrin. The sample was reanalyzed at a secondary dilution, however, aldrin was not detected in the reanalysis. No further qualification was necessary because the aldrin result was previously qualified due to surrogate outliers, as noted above. In addition, endrin aldehyde was detected in the secondary dilution, but not in the initial analysis. As a result, the endrin aldehyde result from the secondary dilution was transcribed to the initial analysis Form 1 and qualified "D" (result determined from a secondary dilution). Supporting documentation (i.e., laboratory Form 1) is presented in Appendix D.
- The metals contract required detection limit (CRDL) standard associated with SDG No. Q2812 exhibited low recoveries (i.e., <90%) for copper (Cu), selenium (Se), and sodium (Na), and high recoveries (i.e., >110%) for aluminum (Al), cadmium (Cd), and potassium (K). The Cu, Se, and Na results for samples with concentrations less than two times the CRDL [i.e., 1 mg/kg (Cu and Se) and 400 mg/kg (Na)] were qualified as biased low ("L" or "UL"). No qualification was necessary for Al, Cd, and K because the results were either greater than two times the CRDL (i.e., Al and K), non-detect (i.e., Cd), or qualified "B" due to QC blank contamination (i.e., K). Supporting documentation (i.e., laboratory Form 2B) is presented in Appendix D.
- The metals CRDL standard associated with equipment rinsate samples ER-SS-120402 and ER-SS-121002 exhibited a low recovery (i.e., <90%) Na. The non-detect Na results were qualified as biased low ("UL") because the concentrations were less than two times the CRDL (i.e., 4000 μg/L). Supporting documentation (i.e., laboratory Form 2B) is presented in Appendix D.
- The metals CRDL standards associated with soil samples SS-MW10-1, SS-SB03-0, SS-SB03-1, SS-SB03-4, SS-SB02-0, SS-SB02-1, and SS-SB02-4 exhibited low recoveries (i.e., <90%) for arsenic (As), copper (Cu), and Na, and high recoveries (i.e., >110%) for Cd, nickel (Ni), K, and Se. The As, Cu, and Na results for samples with concentrations less than two times the CRDL [i.e., 2 mg/kg (As), 1 mg/kg (Cu) and 400 mg/kg (Na)] were qualified as biased low ("L" or "UL"). The Ni, K, and Se results for samples with concentrations less than two times the CRDL [i.e., 1 mg/kg (Ni and Se) and and 200 mg/kg (K)] were qualified as biased high ("K"). No qualification was necessary for Cd because all sample results were non-detect. Supporting documentation (i.e., laboratory Form 2B) is presented in Appendix D.
- The metals CRDL standards associated with soil samples SS-MW11-0, SS-SB01-0, SS-SB01-1, SS-SB01-4, SS-SB04-0, SS-SB04-1, SS-SB04-4, SS-SB05-0, SS-SB05-1, and SS-SB05-4 exhibited low recoveries (i.e., <90%) for Cu, Na, thallium (Tl), and high recoveries (i.e., >110%) for Al and Se. The Cu, Na, and Tl results for samples with concentrations less than two times the CRDL [i.e., 1 mg/kg (Cu), 400 mg/kg (Na), and 2 mg/kg (Tl)] were qualified as biased low ("L" or "UL"). The Se results for samples with concentrations less than two times the CRDL [i.e., 1 mg/kg (Se)] were qualified as biased high ("K"). No qualification was necessary for Al because the sample results were greater than two times the CRDL. Supporting documentation (i.e., laboratory Form 2B) is presented in Appendix D.

- The metals CRDL standard associated with SDG No. T2812 and U2812 exhibited low recoveries (i.e., <90%) for Cu and Na, and high recoveries (i.e., >110%) for As, lead (Pb), K, and Se. The Cu and Na results for samples with concentrations less than two times the CRDL [i.e., 10 μg/L (Cu) and 4000 μg/L (Na)] were qualified as biased low ("L" or "UL"). The As, Pb, K, and Se results (not qualified "B") for samples with concentrations less than two times the CRDL [i.e., 20μg/L (As), 6 μg/L (Pb), 2000 μg/L (K), and 10 μg/L (Se)] were qualified as biased high ("K"). Supporting documentation (i.e., laboratory Form 2B) is presented in Appendix D.
- The metals MS/MSD analysis of soil sample SS-MW10-0 (SDG No. Q2812) exhibited low recoveries (i.e., <75%) for Tl and Pb. The Tl and Pb results for all associated soil samples in SDG No. Q2812 were qualified as biased low ("L" or "UL"). Supporting documentation (i.e., laboratory Form 5A) is presented in Appendix D.
- The metals MS/MSD analysis of soil sample SS-MW10-1 (SDG No. R2812) exhibited a low recovery (i.e., <75%) for Tl and a high recovery (i.e., >125%) for Pb. The Tl results for all associated soil samples in SDG No. R2812 (all non-detect) were qualified as biased low ("UL"), while the Pb results were qualified as biased high ("K"). Supporting documentation (i.e., laboratory Form 5A) is presented in Appendix D.
- The dissolved metals MS/MSD analysis of groundwater sample GW-MW11 (SDG No. U2812) exhibited a low recovery (i.e., <75%) for silver (Ag). The dissolved Ag results for all associated groundwater samples in SDG No. U2812 (all non-detect) were qualified as biased low ("UL"). Supporting documentation (i.e., laboratory Form 5A) is presented in Appendix D.
- The metals matrix duplicate analysis of groundwater sample GW-MW11 (SDG No. T2812) exhibited a high relative percent difference (RPD) (i.e., >20%) for Zn.. The Zn results for all associated groundwater samples in SDG No. T2812 (not qualified "B") were qualified as estimated ("J"). Supporting documentation (i.e., laboratory Form 6) is presented in Appendix D.
- The metals serial dilution of soil sample SS-MW10-0 (SDG No. Q2812) exhibited high percent differences (%Ds) (i.e., >10%) for magnesium (Mg) and Zn. The Mg and Zn results for all associated soil samples in SDG No. Q2812 (not qualified "B") were qualified as estimated ("J"). Supporting documentation (i.e., laboratory Form 9) is presented in Appendix D.
- The metals serial dilution of soil sample SS-MW10-1 (SDG No. R2812) exhibited a high %D (i.e., >10%) for Mg. The Mg results for all associated soil samples in SDG No. R2812 (not qualified "B") were qualified as estimated ("J"). Supporting documentation (i.e., laboratory Form 9) is presented in Appendix D.

<u>Notes</u>

Sample Custody Documentation

All samples were received at the laboratory intact and under proper chain-of-custody (COC) documentation with the following exceptions:

- Equipment rinsate blank sample ER-SS-120402 was not referenced on the COC.
 However, the laboratory received the appropriate sample containers and performed the requested analyses accordingly.
- The sample containers for soil samples SS-SB02-0, SS-SB02-1, and SS-SB02-4 were mislabeled as SS-SB04-0, SS-SB04-1, and SS-SB04-4, respectively, but the sample collection times on the containers were in agreement with the COC.
- For SDG No. R2812, the cooler temperature recorded at the laboratory (i.e., 7°C) was slightly above the QC limits of $4^{\circ}C \pm 2^{\circ}C$.
- The total/dissolved metals analysis was not requested on the COC for groundwater sample GW-MW11. However, the laboratory received the appropriate sample container and performed the metals analyses accordingly.
- For SDG No. T2812, the trip blank collected on 01/08/03 was not requested on the COC. However, the laboratory received the appropriate sample containers and performed the VOC analysis accordingly.
- The trip blank VOA vials associated with the groundwater samples collected on 01/20/03 were received broken at the laboratory. Consequently, the VOC analysis could not be performed on the trip blank.

Blank Review

Several target compounds/analytes were detected in the laboratory and field QC blank samples, as summarized in Table 1, which lists the maximum concentrations detected in the blanks. Supporting documentation (i.e., laboratory Forms 1 and 4 for organics; and Forms 3, 13, and 14 for inorganics) is presented in Appendix D.

USEPA Region III validation guidelines require sample concentrations less than ten times the amount detected in an associated blank for common lab contaminants [i.e., methylene chloride, acetone, 2-butanone, and phthalates], and five times for all other target compounds/analytes to be qualified "B".

The following describes which sample results should be considered false-positive due to blank contamination. Only those contaminants requiring qualification are referenced.

• The one or more of the following VOCs were qualified "B" (false positive) in the soil samples due to method, rinsate, and trip blank contamination: dichlorodifluoromethane, trichlorofluoromethane, 1,1,2-trichloro-1,2,2-trifluoroethane, carbon disulfide, acetone, methylene chloride, trans-1,2-dichloroethene, trichloroethene, toluene, and tetrachloroethene.

- The one or more of the following VOCs were qualified "B" (false positive) in the groundwater samples due to method and trip blank contamination: 1,4-dichlorobenzene, 1,2,4-trichlorobenzene, and toluene.
- The one or more of the following SVOCs were qualified "B" (false positive) in the soil samples due to method and rinsate trip blank contamination: phenanthrene, fluoranthene, pyrene, bis(2-ethylhexyl)phthalate, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(a)pyrene.
- The VOC TIC results (i.e., laboratory artifacts siloxane compounds from column bleed) were qualified "B" (false positive) and crossed out in all groundwater samples due to laboratory contamination.
- Several SVOC TIC results (i.e., unknown) were qualified "B" (false positive) and crossed out in all soil samples due to method blank contamination. Also, TIC results identified as laboratory artifacts (i.e., siloxane compounds from column bleed, unknown phthalates) were crossed out due to laboratory contamination.
- The total metals results for Sb, beryllium (Be), Mg, K, and Zn in one or more soil samples were qualified "B" (false positive) due to method, calibration, or rinse blank contamination.
- The total metals results for Al, Sb, As, chromium (Cr), Fe, Pb, Hg, and Zn in one or more groundwater samples were qualified "B" (false positive) due to method, calibration, or rinse blank contamination.
- The dissolved metals results for Cr, cobalt (Co), Fe, and Hg in one or more groundwater samples were qualified "B" (false positive) due to method, rinsate, or calibration blank contamination.

Field Duplicate Precision

The following field duplicates were collected during this sampling event:

Parent Sample ID	Field Duplicate ID
SS-MW10-4	SS-MW10D-4
SS-MW11-1	SS-MW11D-1
SS-MW11-4	SS-MW11D-4
GW-MW02	GW-MW02D

A summary of field precision is presented in Tables 2-1 to 2-5. No qualification of data was made based on field duplicate precision, as per the USEPA Region III validation guidelines.

Matrix Spike/Matrix Spike Duplicate Accuracy and Precision

MS/MSD analyses were performed on samples SS-MW10-0, SS-MW10-1, GW-MW11, and GW-MW-115. The MS/MSD analyses and associated Laboratory Control Samples (LCSs) generally

exhibited good precision and accuracy. MS/MSD and LCS outliers resulting in data qualification were noted in the Minor Problems section of this report.

The VOC, SVOC and pesticide MS/MSD and/or LCS analyses exhibited percent recoveries outside quality control limits for some target compounds. Since USEPA Region III National Functional Guidelines for Organic Data Review does not require data qualification for MS/MSD and/or LCS outliers alone, no qualification of the data was required.

Reporting Variances

The following analytical result reporting variances, requiring no further data validation qualification, were noted during the data review:

- For samples SS-MW08-1 and SS-SB01-0, benzo(k)fluoranthene was identified as a SVOC TIC. Target SVOCs should not be identified as TICs. Therefore, the identification of this TIC was revised to "benzo(k)fluoranthene isomer" since the retention time was outside QC limits (i.e., ± 0.06 relative retention time units) from the daily calibration standard. Also, the CAS number and laboratory applied "N" qualifier were deleted from the Form 1 SVOC-TIC.
- For sample SS-MW08-4, anthracene was identified as a SVOC TIC. Target SVOCs should not be identified as TICs. Therefore, the identification of this TIC was revised to "anthracene isomer" since the retention time was outside QC limits (i.e., \pm 0.06 relative retention time units) from the daily calibration standard. Also, the CAS number and laboratory applied "N" qualifier were deleted from the Form 1 SVOC-TIC.
- For sample SS-SB04-0, 2-methylnaphthalene was identified as a VOC TIC. Target SVOCs should not be identified as VOC TICs. This TIC was deleted from the Form 1 VOC-TIC.

TABLE 1 MAXIMUM CONCENTRATION OF ANALYTES IN QC BLANKS 80th Division Reserve Site - Ft. Story, Virginia SDG Nos. Q2812, R2812, S2812, T2812, U2812, Q2849, and R2849

Analyte	Aqueous Method/ Preparation Blanks (ug/L)	Aqueous Method/ Preparation Blanks (Dissolved) (ug/L)	Soil Method/ Preparation Blanks	Rinsate Blanks	Rinsate Blanks (Dissolved)	Trip Blanks	Calibration Blanks (Inorganics Only)
Acetone	(-8)	NA	(ug/kg)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
Carbon Disulfide		NA NA	4		NA		NA
Chlorobenzene	0.2	NA NA	0.6		NA		NA
1,4-Dichlorobenzene	0.5	NA NA			NA	0.2	NA
1,2-Dichlorobenzene		NA NA	0.3		NA NA	0.3	NA
Dichlorodifluoromethane		NA NA	0.2		NA		NA
trans-1,2,-Dichloroethene		NA NA	0.6		NA		NA
Methylene Chloride		NA NA	0.7		NA		NA
Tetrachloroethene		NA NA	5	2	NA	2	NA
1,1,2,2-Tetrachloroethane		NA NA	0.5		NA NA		NA
Toluene	0.9	NA NA			NA		NA
1,2,4-Trichlorobenzene	† '	NA NA	2	3	NA	4	NA
Trichloroethene	 	NA NA	1		NA	0.9	NA NA
trichlorofluoromethane		NA NA	0.5		NA		NA
1,1,2-Trichloro-1,2,2-trifluoroethane		NA NA	2		NA		NA
Xylenes (Total)	0.5	NA NA	1		NA		NA
Phenanthrene	0.5				NA NA		NA NA
Fluoranthene		NA NA	34		NA	NA	NA
Pyrene		NA NA	260		NA	NA	NA
Benzo(a)anthracene		NA NA	180		NA	NA	NA
Chrysene		NA NA	140		NA NA	NA	NA
Benzo(b)fluoranthene		NA NA	170		NA	NA	NA
Benzo(k)fluoranthene		NA NA	72		NA	NA	NA
Benzo(a)pyrene		NA NA	58		NA	NA	NA
ois(2-Ethylhexyl)phthalate		NA NA	33		NA	NA	NA
Caprolactum		NA NA	35	2	NA	NA	NA
Aluminum		NA NA		2	NA	NA	NA
Antimony				15.6		NA	50.4
Arsenic				5.0		NA	
Barium	0.4					NA	4.2
Beryllium		0.41	0.047 mg/kg	0.6	0.56	NA	0.7
Cadmium						NA	0.3
Calcium						NA	0.6
Chromium				50.6	59.2	NA	13.1
Cobalt				1.2	1.1	NA	
on					0.86	NA	
ead				35.1	37.1	NA	30.4
1agnesium	68.3	70.6		1.4		NA	1.3
Ianganese	08.3	59.6	6.254 mg/kg	66.0	64.9	NA	76.6
1ercury	0.112			0.37	1.1	NA	0.2
otassium	0.112	0.113		0.11	0.10	NA	0.10
odium		169.3	33.71 mg/kg	81.1	131	NA	312.4
inc	12			261		NA	
	1.2	1.123	0.250 mg/kg	10.8	4.8	NA	

^{--- -} Non-detect

NA - Not Applicable

TABLE 2-1 FIELD DUPLICATE PRECISION 80th Division Reserve Site - Ft. Story, Virginia SDG No. Q2812

ID	FIELD DUPLICATE SAMPLE ID	ANALYTE/COMPOUND	PRIMARY COMPOUND CONCENTRATION (ug/kg)	DUPLICATE COMPOUND CONCENTRATION (ug/kg)	RPD (%)
SS-MW10-4	SS-MW10D-4	Trichlorofluoromethane	0.6	0.8	28.6
	,	Carbon Disulfide	2.0	2,0	0.0
		Acetone	17	18	5.7
		4-Methyl-2-pentanone	ND	5	NC
		Xylene (Total)	ND	2	NC
		bis(2-Ethylhexyl)phthalate	610	290	71.1
		gamma-BHC (Lindane)	ND	0.37	NC
		4,4'-DDD	ND	0.42	NC
		4,4'-DDT	0.93	3.0	105.3
		Aluminum (mg/kg)	299	240	21.9
		Barium (mg/kg)	2.1	1.7	21.1
		Calcium (mg/kg)	118	80.9	37.3
		Chromium (mg/kg)	6.3	4.2	40.0
		Cobalt (mg/kg)	0.12	0.14	15.4
		Copper (mg/kg)	0.40	ND	NC
		Iron (mg/kg)	867	594	37.4
·		Lead (mg/kg)	1.4	0.83	51.1
		Magnesium (mg/kg)	45.5	В	NC
		Manganese (mg/kg)	6.6	3.4	64.0
		Mercury (mg/kg)	0.019	0.020	5.1
		Nickel (mg/kg)	0.39	0.38	2.6
		Sodium (mg/kg)	67.0	60.0	11.0
		Vanadium (mg/kg)	1.3	1.1	16.7
		Zinc (mg/kg)	6.5	В	NC

Only analytes detected in sample and/or duplicate are shown.

NC - Not Calculable

ND - Not Detected

B - Analyte detected in the associated QC blank.

TABLE 2-2 FIELD DUPLICATE PRECISION 80th Division Reserve Site - Ft. Story, Virginia SDG No. Q2812

PRIMARY SAMPLE ID	FIELD DUPLICATE SAMPLE ID	ANALYTE/COMPOUND	PRIMARY COMPOUND CONCENTRATION (ug/kg)	DUPLICATE COMPOUND CONCENTRATION (ug/kg)	RPD (%)
SS-MW11-1	SS-MW11D-1	Carbon Disulfide	1	ND	NC
		Acetone	25	17	38.1
		Xylene (Total)	1	ND	NC
		bis(2-Ethylhexyl)phthalate	260	310	17.5
		4,4'-DDE	0.98	1.60	48.1
		4,4'-DDT	1.40	1.7	19.4
		Aluminum (mg/kg)	313	314	0.3
		Barium (mg/kg)	2.9	2.9	0.0
		Calcium (mg/kg)	66	77.7	16.9
		Chromium (mg/kg)	1.9	5.1	91.4
		Cobalt (mg/kg)	0.23	0.27	16.0
		Copper (mg/kg)	17.9	22.2	21.4
		Iron (mg/kg)	875	1270	36.8
		Lead (mg/kg)	8.2	33.6	121.5
		Magnesium (mg/kg)	45.3	51.2	12.2
		Manganese (mg/kg)	10.1	13.9	31.7
		Mercury (mg/kg)	0.018	0.018	0.0
		Nickel (mg/kg)	0.42	0.54	25.0
		Sodium (mg/kg)	65.6	95.2	36.8
į		Vanadium (mg/kg)	1.6	1.6	0.0
		Zinc (mg/kg)	24.6	42.7	53.8

Only analytes detected in sample and/or duplicate are shown.

NC - Not Calculable

ND - Not Detected

TABLE 2-3 FIELD DUPLICATE PRECISION 80th Division Reserve Site - Ft. Story, Virginia SDG No. Q2812

PRIMARY SAMPLE ID	FIELD DUPLICATE SAMPLE ID	ANALYTE/COMPOUND	PRIMARY COMPOUND CONCENTRATION (ug/kg)	DUPLICATE COMPOUND CONCENTRATION (ug/kg)	RPD (%)
SS-MW11-4	SS-MW11D-4	Dichlorodifluoromethane	В	0.6	NC
		1,1,2-Trichloro-1,2,2-trifluoroethane	В	2	NC
		4-Methyl-2-pentanone	В	16	NC
		Ethylbenzene	ND	0.6	NC
		Xylene (Total)	i i	7	150.0
		bis(2-Ethylhexyl)phthalate	270	200	29.8
		4,4'-DDD	ND	0.88	NC
		4,4'-DDT	ND	1.3	NC
		Aluminum (mg/kg)	172	216	22.7
		Barium (mg/kg)	1.7	1.9	11.1
		Calcium (mg/kg)	87.9	88.9	1.1
		Chromium (mg/kg)	1.9	2.2	14.6
		Cobalt (mg/kg)	0.09	0.16	56.0
		Copper (mg/kg)	0.50	0.97	63.9
		Iron (mg/kg)	559	734	27.1
		Lead (mg/kg)	2.0	2.6	26.1
		Manganese (mg/kg)	5.2	5.4	3.8
		Mercury (mg/kg)	ND	0.020	NC
		Nickel (mg/kg)	0.39	0.38	2.6
		Sodium (mg/kg)	51.1	59.7	15.5
		Vanadium (mg/kg)	0.81	1.0	20.0

Only analytes detected in sample and/or duplicate are shown.

NC - Not Calculable

ND - Not Detected

B - Analyte detected in the associated QC blank.

TABLE 2-4 FIELD DUPLICATE PRECISION 80th Division Reserve Site - Ft. Story, Virginia SDG No. T2812

PRIMARY SAMPLE ID	FIELD DUPLICATE SAMPLE ID	ANALYTE/COMPOUND	PRIMARY COMPOUND CONCENTRATION (ug/L)	DUPLICATE COMPOUND CONCENTRATION (ug/L)	RPD (%)
GW-MW02	GW-MW02D	Aluminum	260	890	109.6
		Barium	13.0	15.7	18.8
		Cadmium	ND	1.1	NC
		Calcium	20900	20600	1.4
	ł	Chromium	В	6.0	NC
		Copper	ND	1.9	NC
	ĺ	Iron	192	972	134.0
		Magnesium	2720	2700	0.7
		Manganese	14	17.2	17.7
	+	Nickel	ND	2.5	NC
	+	Potassium	2380	2380	0.0
İ	.	Sodium	4970	4930	0.8
	}-	Vanadium	2.0	4.2	71.0
		Zinc	58.8	173	98.5

Only analytes detected in sample and/or duplicate are shown.

NC - Not Calculable

ND - Not Detected

B - Analyte detected in the associated QC blank.

TABLE 2-5 FIELD DUPLICATE PRECISION 80th Division Reserve Site - Ft. Story, Virginia SDG No. U2812

ID	FIELD DUPLICATE SAMPLE ID	ANALYTE/COMPOUND	PRIMARY COMPOUND CONCENTRATION (ug/L)	DUPLICATE COMPOUND CONCENTRATION (ug/L)	RPD (%)
E19-GW01-00-749	E19-GW01-00-752	Aluminum (dissolved)	86.2	57.3	40.3
		Barium (dissolved)	11.5	11.4	0.9
		Calcium (dissolved)	20700	20800	0.5
		Cobalt (dissolved)	1.2	1.5	22.2
		Magnesium (dissolved)	2710	2720	0.4
		Manganese (dissolved)	14	13.5	2.2
		Potassium (dissolved)	2630	2620	0.4
	!	Selenium (dissolved)	10.3	10.2	1.0
		Sodium (dissolved)	4860	4720	2.9
		Vanadium (dissolved)	1.3	1.5	14.3
		Zinc (dissolved)	25.9	27.0	4.2

ND - Non-Detect NC - Not Calculable

Only analytes detected in sample and/or duplicate are shown.

APPENDIX A

SAMPLE AND ANALYSIS SUMMARY

APPENDIX A SAMPLE AND ANALYSIS SUMMARY 80th DIVISION RESERVE SITE - FORT STORY, VIRGINIA

Sample ID	Date Sampled	TCL VOCS (8260B) ¹	TCL SVOCS (8270C) ¹	TCL Pesticides/ PCBs (8081A/8082) ¹	TAL Metals (Total/Dissolved) (6010B/7470A/7471A) ¹	Comments
SOIL SAMPLES			·			
SS-MW07-0	12/3/02	X	X	X	x	
SS-MW07-1	12/3/02	X	Х	X	x	
SS-MW07-4	12/3/02	X	· X	X	X	
SS-MW08-0	12/3/02	X	X	X	х	
SS-MW08-1	12/3/02	X	Х	X	x	
SS-MW08-4	12/3/02	X	X	X	X	
SS-MW11-1	12/3/02	X	Х	X	X	
SS-MW11-4	12/3/02	X	Х	X	X	
SS-MW11D-1	12/3/02	X	Х	X	X	FD
SS-MW11D-4	12/3/02	X	X	X	X	FD
SS-MW10-0	12/3/02	X	X	X	X	MS/MSD
SS-MW10-1	12/3/02	X	X	X	X	MS/MSD
SS-MW10-4	12/3/02	X	X	X	X	
SS-MW10D-4	12/3/02	X	X	X	X	FD
SS-SB01-0	12/4/02	X	X	X	X	
SS-SB01-1	12/4/02	X	X	X	X	
SS-SB01-4	12/4/02	X	X	X	X	
SS-SB02-0	12/4/02	X	X	X	X	
SS-SB02-0	12/4/02	X	X	X	X	
SS-SB02-4	12/4/02	X	X	X	X	
SS-SB02-4 SS-SB03-0	12/4/02	X	X	X	X	·
SS-SB03-1	12/4/02	X	X	X	X	
SS-SB03-4	12/4/02	X	X	X	X	
SS-SB03-4 SS-SB04-0	12/4/02	<u>x</u>	X	X	X	
SS-SB04-0	12/4/02	X	X	X	X	
SS-SB04-4	12/4/02	X	X	X	X	
SS-SB05-0	12/4/02	X	X	<u>X</u>	X	
	 		X	<u>X</u>	X	
SS-SB05-1	12/4/02	X		X X	X	
SS-SB05-4	12/4/02	X	X			
SS-MW11-0	12/4/02	X	X	X	X	
SS-MW09-0	12/10/02	X	X	X	X	
SS-MW09-1	12/10/02	X	X	X	X	
SS-MW09-4	12/10/02	X	X	X	X	
6MW05S	12/10/02	X			X (Iron only)	
6MW09	12/10/02	X			X (Iron only)	
6MW06	12/10/02	X			X (Iron only)	
GROUNDWATER						
GW-MW08	1/7/03	X	X	X	X	
GW-MW01	1/7/03	X	X	X	X	
GW-MW02	1/7/03	X	X	X	X	
GW-MW02D	1/7/03	X	X	X	X	FD
GW-MW10	1/8/03	X	X	X	X	
GW-MW11	1/8/03	X	X	X	X	MS/MSD
GW-MW07	1/8/03	X	X	X	X	
GW-MW09	1/9/03	X	X	X	X	
GW-MW05	1/9/03	X	X	X	X	
GW-MW06	1/9/03	X	X	X	X	
GW-MW03	1/14/03	X	Х	X	X	
GW-6MW3D	1/13/03	X			X (Arsenic and Iron only)	

APPENDIX A SAMPLE AND ANALYSIS SUMMARY 80th DIVISION RESERVE SITE - FORT STORY, VIRGINIA

Sample ID	Date Sampled	TCL VOCS (8260B) ¹	TCL SVOCS (8270C) ¹	TCL Pesticides/ PCBs (8081A/8082) ¹	TAL Metals (Total/Dissolved) (6010B/7470A/7471A) 1	Comments
GROUNDWATER:	SAMPLES					
GW-6MW-6	1/14/03	X			X (Arsenic and Iron only)	
GW-MW-117	1/14/03	X			X (Arsenic and Iron only)	
GW-MW-118	1/14/03	X			X (Arsenic and Iron only)	
GW-MW-118D	1/14/03	Χ			X (Arsenic and Iron only)	
GW-6MW-5D	1/15/03	X			X (Arsenic and Iron only)	
GW-6MW-5S	1/15/03	X			X (Arsenic and Iron only)	
GW-6MW-7	1/15/03	X			X (Arsenic and Iron only)	
GW-MW-115	1/20/03	X			X (Arsenic and Iron only)	MS/MSD
GW-6MW-3S	1/20/03	X			X (Arsenic and Iron only)	
GW-6MW-8	1/20/03	X			X (Arsenic and Iron only)	
GW-6MW-4	1/20/03	X			X (Arsenic and Iron only)	
GW-6MW-4D	1/20/03	X			X (Arsenic and Iron only)	
FIELD QC SAMPL	ES					
Trip Blank	12/3/02	X				ТВ
ER-SS-120402	12/3/02	X	X	Х	X	ER
Trip Blank	12/10/02	X				TB
ER-SS-121002	12/10/02	X	X	Х	X	ER
Trip Blank	1/7/03	X				ТВ
ER-SS-010803	1/8/03	X	X	X	X	ER
Trip Blank	1/8/03	X				TB
ER-SS-010903	1/9/03	Χ	Χ .	X	X	ER
Trip Blank	1/9/03	X				TB
Trip Blank	1/14/03	X				TB
Trip Blank	1/15/03	X				TB

Notes:

TCL - Target Compound List

VOC - Volatile Organic Compound

SVOC - Semivolatile Organic Compound

PCB - Polychlorinate Biphenyl

X - Analysis performed

--- - Parameter not requested or no comment

FD - Field Duplicate

MS/MSD - Matrix Spike/Matrix Spike Duplicate

TB - Trip Blank

ER - Equipment Rinsate Blank

¹ - USEPA, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, Final Update III, June 1997

APPENDIX C

LABORATORY RESULTS

(Form IS)

GLOSSARY OF DATA QUALIFIERS

For the purposes of Region III Data Validation, the following code letters and associated definitions are provided:

U	-	Not detected. The associated number indicates approximate sample concentration necessary to be detected.
В	-	Not detected substantially above the level reported in the laboratory or field blanks.
R	-	Unreliable result. Analyte may or may not be present in the sample. Supporting data necessary to confirm result.
J	-	Analyte present. Reported value may not be accurate or precise.
K	-	Analyte present. Reported value may be biased high. Actual value is expected lower.
L	-	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N	-	Tentative identification. Consider present. Special methods may be needed to confirm its presence or absence in future sampling efforts.
UJ	-	Not detected. Quantitation limit may be inaccurate or imprecise.
UL	-	Not detected. Quantitation limit is probably higher.
NJ	-	Qualitative identification questionable due to poor resolution. Presumptively present at an approximate quantity.

The reported value is from a secondary dilution.

D

APPENDIX B

GLOSSARY OF DATA QUALIFIERS

CLIENT SAMPLE NO.

SS-MW09-0

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

CAS NO.

Sample wt/vol:

4.31(q/mL) G

Lab File ID:

Q2812-14A52

Level: (low/med)

COMPOUND

Date Received: 12/11/02

LOW

Date Analyzed: 12/20/02

Lab Sample ID: Q2812-14

% Moisture: not dec. 8

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Aliquot Volume: (uL

Soil Extract Volume: ____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q

75-71-8Dichlorodifluoromethane		U	-
74-87-3Chloromethane	6	บ	İ
75-01-4Vinyl Chloride	6 6	υ	
74-83-9Bromomethane	6	Ü	
75-00-3Chloroethane	6	Ü	
75-69-4Trichlorofluoromethane	6	บั	
75-35-41,1-Dichloroethene	6	บั	1
75-15-0Carbon disulfide	2	J	
76-13-11,1,2-trichloro-1,2,2-triflu	6	U	
67-64-1Acetone	44	U	
75-09-2Methylene Chloride	44	J	- B
156-60-5trans-1,2-Dichloroethene	6	U	u
1634-04-4Methyl-tert-butyl ether		U	
75-34-31,1-Dichloroethane	6 6:	IJ.	1
156-59-2cis-1,2-Dichloroethene		Ü	-
78-93-32-butanone	6	_	1
67-66-3Chloroform	16		
71-55-61,1,1-Trichloroethane		U	
56-23-5Carbon Tetrachloride	6	U	1
71-43-2Benzene	6	U	
107-06-21,2-Dichloroethane	6	U	
79-01-6Trichloroethene	6	U	1
79-01-6Irichioroethene	6	U	
78-87-51,2-Dichloropropane	6	U	
100Cl 01 5	6	U	
10061-01-5cis-1,3-Dichloropropene	6	U	
108-10-14-Methyl-2-pentanone	16	_	_
108-88-3Toluene	0.7	JB	B
10061-02-6trans-1,3-Dichloropropene	6	U	
79-00-51,1,2-Trichloroethane	6	U	
127-18-4Tetrachloroethene	6	U	
591-78-62-hexanone	16	U	
124-48-1Dibromochloromethane	6	U	
106-93-41,2-Dibromoethane	6	U	
FORM I VOA			_ [

CLIENT SAMPLE NO.

6 U 6 U 6 U 6 U 19 U 6 J 6 U 6 U

SS-MW09-0 Lab Name: COMPUCHEM Method: 8260B Lab Code: LIBRTY Case No.: SAS No.: SDG No.: Q2812 Matrix: (soil/water) SOIL Lab Sample ID: Q2812-14 Sample wt/vol: 4.31(g/mL) G Lab File ID: 02812-14A52 Level: (low/med) LOW Date Received: 12/11/02 % Moisture: not dec. 8 Date Analyzed: 12/20/02 GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG 0 108-90-7----Chlorobenzene 6 U 100-41-4-----Ethylbenzene 6 U 6 U 6 U 98-82-8-----Isopropyl Benzene 6 | U 6 U 6 U

Q2812-15A52

SS-MW09-1

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-15

Lab File ID:

Sample wt/vol:

4.66(g/mL) G

Level: (low/med) LOW

Date Received: 12/11/02

% Moisture: not dec. 7

Date Analyzed: 12/20/02

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: (uL

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND (ug/L or i	ug/kg) ud	KG	Q	
75-71-8	Dichlorodifluoromethane		6	U	-
74-87-3	Chloromethane	~			
75-01-4	Vinyl Chloride			ប	
74-83-9	Bromomethane				
75-00-3	Chloroethane			Ų	- 1
75-69-4	Trichlorofluoromethane			U	1
75-35-4	1,1-Dichloroethene			ប្រ	
75-15-0	Carbon disulfide	 -		Ü	1
76-13-1	1,1,2-trichloro-1,2,2-trif	[3]		U	
67-64-1	Acetone	Luj	6	U	
75-09-2	Methylene Chloride	<u>- </u>	28	ļ	- l a
156-60-5	trans-1,2-Dichloroethene		4		- P
1634-04-4	Methyl-tert-butyl ether	—		U	
75-34-3	1,1-Dichloroethane			ប	
156-59-2	cis-1,2-Dichloroethene		6	ੁੱ	-
78-93-3	2-butanone	<u>_</u>	6	1	
67-66-3	Chloroform]	14		
71-55-6	1,1,1-Trichloroethane			U	- 1
56-23-5	Carbon Tetrachloride	<u>—</u> 1		U	
71-43-2	Pangana		-	U	
107-06-2-	1,2-Dichloroethane			U	1
79-01-6	Trichloroethene		6	U	
79-87-5	1 2 Dishlarana		6	U	ł
75-07-1	1,2-Dichloropropane		6	U	
10061 01 5	Bromodichloromethane		6	U	-1
10001-01-2	cis-1,3-Dichloropropene	1		U	- }
108-10-1	4-Methyl-2-pentanone		14	U	١,
100-00-3	Toluene		0.7	JB	10
10001-02-6	trans-1,3-Dichloropropene		6	U	-
197 10 4	1,1,2-Trichloroethane		6	U	1
14/-18-4	Tetrachloroethene		6	Ū	1
591-78-6	2-hexanone		14	Ū	
124-48-1	Dibromochloromethane	_	6	Ü	
106-93-4	1,2-Dibromoethane	_	6	Ŭ	
	FORM I VOA	_			۱,
				?	Jer!

CLIENT SAMPLE NO.

SDG No.: Q2812

SS-MW09-1

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY

Matrix: (soil/water) SOIL

Case No.: SAS No.:

Lab Sample ID: Q2812-15

Sample wt/vol: 4.66(g/mL) G Lab File ID: Q2812-15A52

Level: (low/med) LOW Date Received: 12/11/02

% Moisture: not dec. 7 Date Analyzed: 12/20/02

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: _____(uL

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/K		Q
100-41-4 100-42-5 75-25-2 98-82-8 79-34-5 541-73-1 106-46-7 95-50-1 96-12-8 120-82-1 1330-20-7 110-82-7	ChlorobenzeneEthylbenzeneStyreneStyreneIsopropyl Ber1,1,2,2-Tetra1,4-Dichlorobe1,2-Dichlorobe1,2-Dibromo-31,2,4-TrichlorobeXylene (total	nzene achloroethane benzene benzene 3-Chloropropane brobenzene	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט
				1

CLIENT SAMPLE NO.

SS-MW09-4

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-16

Sample wt/vol: 4.33 (g/mL) G

Lab File ID: Q2812-16B52

Level: (low/med) LOW

Date Received: 12/11/02

% Moisture: not dec. 9

Date Analyzed: 12/20/02

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: ____ (uL

			CONCENTRATION UNITS:	
C	NO	COMPOINID	(ua/I or ua/Va) IIC/V	,

CAS NO. Q (ug/L or ug/Kq) UG/KG

		,, 00,10	Q	
75-71-8	Dichlorodifluoromethane	6	U	
74-87-3	Chloromethane	6		
	Vinyl Chloride	6	บั	
74-83-9	Bromomethane	6	บั	1
75-00-3	Chloroethane	6	บ็	}
75-69-4	Trichlorofluoromethane	6	บั	
75-35-4	1,1-Dichloroethene	6	Ü	
75-15-0	Carbon disulfide	6	Ü	
76-13-1	·1,1,2-trichloro-1,2,2-triflu	6	บั	1
67-64-1	Acetone	5	J	
75-09-2	Methylene Chloride	4	J	B
156-60-5	trans-1,2-Dichloroethene	6	Ū	
1634-04-4	Methyl-tert-butyl ether	6	Ü	-
75-34-3	1,1-Dichloroethane	6	ŭ	
156-59-2	cis-1,2-Dichloroethene	6	บ็	
78-93-3 -	2-butanone	16	Ü	ł
67-66-3	Chloroform	6	บั	
71-55-6	1,1,1-Trichloroethane	6	Ü	
56-23-5	Carbon Tetrachloride	6	บี	
71-43-2	Benzene	6	Ü	
107-06-2	1,2-Dichloroethane	6	บั	
79-01-6	Trichloroethene	6	บั	
78-87-5	1,2-Dichloropropane	6	บั	
75-27-4	Bromodichloromethane	6	บั	
10061-01-5	cis-1,3-Dichloropropene	6	บั	
108-10-1	4-Methyl-2-pentanone	16	l	1
108-88-3	Toluene	0.9		В
10061-02-6	trans-1,3-Dichloropropene	6	U	١٥
79-00-5	1,1,2-Trichloroethane	6	-	1
127-18-4	Tetrachloroethene	6	_	1
591-78-6	2-hexanone	16	_	
124-48-1	Dibromochloromethane	6		1. (5
106-93-4	1,2-Dibromoethane	6	บ	3/290
		٥١	U	1 11 2
*	FORM T VOA			Į

CLIENT SAMPLE NO.

SS-MW09-4 Method: 8260B Lab Name: COMPUCHEM Lab Code: LIBRTY Case No.: SAS No.: SDG No.: Q2812 Matrix: (soil/water) SOIL Lab Sample ID: Q2812-16 Sample wt/vol: 4.33(q/mL) G Lab File ID: 02812-16B52 Level: (low/med) LOW Date Received: 12/11/02 % Moisture: not dec. 9 Date Analyzed: 12/20/02

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG CAS NO. COMPOUND Q 108-90-7-----Chlorobenzene 6 U 100-41-4-----Ethylbenzene U 6 100-42-5-----Styrene U 6 75-25-2-----Bromoform 6 U 98-82-8-----Isopropyl Benzene 6 U 79-34-5-----1,1,2,2-Tetrachloroethane_ 541-73-1----1,3-Dichlorobenzene б U 6 U 6 U U 6 U 6 6 U U 19 U U 6 108-87-2-----Methylcyclohexane U

CLIENT SAMPLE NO.

SSMW07-0

Lab Name: COMPUCHEM

Lab Code: LIBRTY

Method: 8260B

Case No.:

SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-1

Sample wt/vol:

4.02(g/mL) G

Lab File ID: Q2812-1A59

Level: (low/med) LOW Date Received: 12/04/02

% Moisture: not dec. 5

Date Analyzed: 12/10/02

GC Column: ZB624

ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q

	Dichlorodifluoromethane	7	U	
74-87-3	Chloromethane	7	υ	
75-01-4	Vinyl Chloride	7	U	
74-83-9 -	Bromomethane	7	U	- 1
75-00-3	Chloroethane	7		
75-69-4	Trichlorofluoromethane	2	1 -	B
75-35-4	1,1-Dichloroethene	-	U	
75-15-0 -	Carbon disulfide	i	ĴВ	B
76-13-1	1,1,2-trichloro-1,2,2-triflu	2	J	
67-64-1	Acetone	18		B
75-09-2	Methylene Chloride	6		
156-60-5	trans-1,2-Dichloroethene	0.9		
1634-04-4	Methyl-tert-butyl ether	7	U	1
75-34-3	1,1-Dichloroethane	7	lΰ	
156-59-2	cis-1,2-Dichloroethene	7	lΰ	- 1
78-93-3	2-butanone	16	_	
, 0	Chloroform	7	ŭ	
71 - 55-6	1,1,1-Trichloroethane	7	lΰ	
56-23-5	Carbon Tetrachloride	7	υ	-
71-43-2 -	Benzene	7	ŭ	- 1
107-06-2	1,2-Dichloroethane	7		
79-01-6	Trichloroethene	0.8	1 -	B
78-87-5 	1,2-Dichloropropane	7		
75 - 27-4	Bromodichloromethane	7		
,0 £, 1 10061-01-5	cis-1,3-Dichloropropene	-	-	- 1
108-10-1	4-Methyl-2-pentanone		ភ្	
108-88-3	Toluene	10		-
	trans-1,3-Dichloropropene	3	JB	(1)
10001-02-0	1,1,2-Trichloroethane	7	U	
197.10 /	Tetrachloroethene	7	ប	
14/-10-4	2-hexanone	9	В	- 1
171 /0-6- 	z-nexanone	16	1	-
106 03 4	Dibromochloromethane	7	U	}
100-93-4	1,2-Dibromoethane	7	U	ł

CLIENT SAMPLE NO.

SSMW07-0

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-1

Sample wt/vol:

Lab File ID:

Q2812-1A59

4.02(g/mL) G

Level: (low/med) LOW Date Received: 12/04/02

% Moisture: not dec. 5

Date Analyzed: 12/10/02

GC Column: ZB624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: _____(uL

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q

108-90-7	0.5 0.7 7 7 7 0.5 0.5 0.3 7 7 7	J U U U U U J J
----------	---	-----------------

SSMW07-1

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-2

Sample wt/vol:

4.06(g/mL) G

Lab File ID: Q2812-2A59

Level: (low/med) LOW

Date Received: 12/04/02

% Moisture: not dec. 8

Date Analyzed: 12/10/02

GC Column: ZB624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: ____(uI

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	[ı
75-71-8Dichlorodifluoromethane	7	U	
1 74-87-3Chloromethane	j ,	_	
75-01-4Vinyl Chloride	7		ĺ
74-83-9Bromomethane	Í ,	Ü	ĺ
75-00-3Chloroethane	j ,	Ü	l
75-69-4Trichlorofluoromethane	ĺ	-	B
75-35-41.1-Dichloroethene	7	II an	
75-15-0Carbon disulfide	0.8	-	B
76-13-11,1,2-trichloro-1,2,2-triflu	1	J	
67-64-1Acetone	_ :	JВ	B
75-09-2Methylene Chloride	i -	JB	
156-60-5trans-1.2-Dichloroethene	0.7		8
1634-04-4Methyl-tert-butyl ether	1	IJ	
/5-34-31,1-Dichloroethane	· ·	Ü	İ
156-59-2cis-1.2-Dichloroethene	· ·	TT	ĺ
78-93-32-butanone	17	-	ĺ
67-66-3Chloroform		Ü	ĺ
71-55-61,1,1-Trichloroethane	7	ŢŢ	Į
56-23-5Carbon Tetrachloride	7	Ü	ŀ
71-43-2Benzene	7	υ	
107-06-21.2-Dichloroethane	$\frac{7}{7}$	บ็	
1 79-01-6Trichloroethene	· 1	JВ	•
78-87-51.2-Dichloropropage	7	וז	ь
/5-2/-4Bromodichloromethane	7	บ็	
10061-01-5cis-1.3-Dichloropropene	7	ΰ	
1 108-10-14-Methvl-2-pentanone	7	J	
108-88-3 108-88-3		JВ	A
10061-02-6trans-1,3-Dichloropropene		Ü	B
/9-00-51,1,2-Trichloroethane		Ü	
12/-18-4Tetrachloroethene	· · · · · · · · · · · · · · · · · · ·	_	Ь
591-78-62-hexanone	17	1	U
124-48-1Dibromochloromethane	1	ן ט	
106-93-41,2-Dibromoethane	· · · · · · · · · · · · · · · · · · ·	ti l	
	'	١	
FORM I VOA			

CLIENT SAMPLE NO.

SSMW07-1 Lab Name: COMPUCHEM Method: 8260B Lab Code: LIBRTY Case No.: SAS No.: SDG No.: Q2812 Matrix: (soil/water) SOIL Lab Sample ID: Q2812-2 Sample wt/vol: 4.06(g/mL) G Lab File ID: 02812-2A59 Level: (low/med) LOW Date Received: 12/04/02 % Moisture: not dec. 8 Date Analyzed: 12/10/02

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

CAS NO.

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL

CONCENTRATION UNITS:

COMPOUND (ug/L or ug/Kg) UG/KG 0 108-90-7-----Chlorobenzene 0.5 J 100-41-4-----Ethylbenzene 0.5 J 100-42-5-----Styrene 7 U 75-25-2-----Bromoform 7 U 98-82-8-----Isopropyl Benzene 7 U 79-34-5-----1,1,2,2-Tetrachloroethane
541-73-1----1,3-Dichlorobenzene
106-46-7----1,4-Dichlorobenzene
95-50-1-----1,2-Dichlorobenzene
96-12-8-----1,2-Dibromo-3-Chloropropane
120-82-1-----1,2,4-Trichlorobenzene 7 U 7 U 0.4 J 7 U 7 U 7 U 1330-20-7------Xylene (total) 79-20-9--------Methyl acetate 5 J 7 U 110-82-7------Cyclohexane
108-87-2-----Methylcyclohexane 7 ប 7 | U

SSMW07-4

Lab Name: COMPUCHEM

Method: 8260B

SDG No.: Q2812

Q2812-3A59

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-3

Lab File ID:

4.86(g/mL) G

Sample wt/vol:

Lab Code: LIBRTY Case No.: SAS No.:

Level: (low/med) LOW

Date Received: 12/04/02

% Moisture: not dec. 20

Date Analyzed: 12/10/02

GC Column: ZB624

ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: ____(uL

CONCENTRATION UNITS: CAS NO. COMPOUND

(ug/L or ug/Kg) UG/KG

- 			- ₁
75-71-8Dichlorodifluoromethane	0.6	т	
74-87-3Chloromethane	6	Ŭ	į.
75-01-4Vinyl Chloride	ě,		-
74-83-9Bromomethane	6	Ū	1
75-00-3Chloroethane	6	บั	1
75-69-4Trichlorofluoromethane	2	JВ	10
75-35-41,1-Dichloroethene	6	บ	
75-15-0Carbon disulfide	0.9	_	13
76-13-11,1,2-trichloro-1,2,2-triflu	2	J	
67-64-1Acetone	19		B
75-09-2Methylene Chloride	7	В	J
156-60-5trans-1,2-Dichloroethene	0.8		IJ
1634-04-4Methyl-tert-butyl ether	6.8	Ü	1
75-34-31,1-Dichloroethane	6		
156-59-2cis-1,2-Dichloroethene	6	บ	
78-93-32-butanone	16	_	
67-66-3Chloroform	6	_	
71-55-61,1,1-Trichloroethane	6		- 1
56-23-5Carbon Tetrachloride	6	_	1
71-43-2Benzene		U	
107-06-21,2-Dichloroethane	6		
79-01-6Trichloroethene		_	13
78-87-51,2-Dichloropropane	0.7		10
75-27-4Bromodichloromethane		U	ŀ
10061-01-5cis-1,3-Dichloropropene	6		
108-10-14-Methyl-2-pentanone	6	_	
108-88-3Toluene	10		1
10061-02-6trans-1,3-Dichloropropene		JВ	10
79-00-51,1,2-Trichloroethane	6		
127-18-4Tetrachloroethene	6		
591-78-62-hexanone		JВ	-
124-48-1Dibromochloromethane	16		- 1
106-93-41,2-Dibromoethane	6		
100-33-41,2-DIDIOMOethane	6	U	
FORM I VOA	 !		!

CLIENT SAMPLE NO.

SSMW07-4

Lab Name: COMPUCHEM

Lab Code: LIBRTY Case No.: SAS No.:

Method: 8260B

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-3

Sample wt/vol:

4.86(g/mL) G

Lab File ID: Q2812-3A59

Level: (low/med) LOW

Date Received: 12/04/02

% Moisture: not dec. 20

Date Analyzed: 12/10/02

GC Column: ZB624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: _____(uL

CAS NO. COMPOUND CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q

110-82-7Cyclohexane 6 U 108-87-2Methylcyclohexane 6 U	108-90-7	5.666666366656 0	ם ל מ מ מ ל מ מ מ מ מ מ מ מ מ מ מ מ מ מ
110-82-7Cyclohexane 6 U 108-87-2Methylcyclohexane 6 U	1330-20-7Xylene (total) 79-20-9Methyl acetate	5	J U
	110-82-7Cyclohexane 108-87-2Methylcyclohexane	6	บ บ

CLIENT SAMPLE NO.

SSMW08-0

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-4

Sample wt/vol:

Lab File ID:

Q2812-4RA59

Level: (low/med) LOW

4.09(g/mL) G

Date Received: 12/04/02

Date Analyzed: 12/11/02

% Moisture: not dec. 4

ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: ____(uL

CAS NO.

GC Column: ZB624

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q

75-71-8Dichlorodifluoromethane	0.6	JB	10
74-87-3Chloromethane	6	บ	~
75-01-4Vinyl Chloride	6	-	
74-83-9Bromomethane	6	บั	
75-00-3Chloroethane	6	บั	
75-69-4Trichlorofluoromethane	6	ŭ	
75-35-4 75-35-4	6	บั	
75-15-0Carbon disulfide	6	ប៊	i
76-13-11,1,2-trichloro-1,2,2-triflu	2	JВ	M
67-64-1Acetone	15	J	10
75-09-2Methylene Chloride	5		1
156-60-5trans-1,2-Dichloroethene		JВ	13
1634-04-4Methyl-tert-butyl ether	6	Ŭ	1
75-34-31,1-Dichloroethane	6	U	1
156-59-2cis-1,2-Dichloroethene	6	ប	
78-93-32-butanone	6	U	
67-66-3Chloroform	16		1
71-55-61,1,1-Trichloroethane	6	U	1
56-23-5Carbon Tetrachloride	6		
71-43-2Benzene	6	U	
107.06.2	6	U	1
107-06-21,2-Dichloroethane	6	U	1
79-01-6Trichloroethene	6	U	1
78-87-51,2-Dichloropropane	6	U	
75-27-4Bromodichloromethane	6	U	1
10061-01-5cis-1,3-Dichloropropene	6	U	
108-10-14-Methyl-2-pentanone	16	Ū	ĺ
108-88-3Toluene	2	JВ	6
10061-02-6trans-1,3-Dichloropropene	6	Ū	10
79-00-51,1,2-Trichloroethane	6	Ū	1
127-18-4Tetrachloroethene	29	•	1
591-78-6	16	U	· [
124-48-1Dibromochloromethane	6	U	1
106-93-41,2-Dibromoethane	6	ij	
	٥	U	
FORM I VOA	_		i

36 glida

CLIENT SAMPLE NO.

SSMW08-0

Lab Name: COMPUCHEM Method: 8260B

SDG No.: Q2812

Lab Sample ID: Q2812-4

Matrix: (soil/water) SOIL

Sample wt/vol:

Lab Code: LIBRTY

4.09(g/mL) G

Lab File ID: Q2812-4RA59

Level:

LOW

(low/med)

Date Received: 12/04/02

% Moisture: not dec. 4

Case No.: SAS No.:

Date Analyzed: 12/11/02

GC Column: ZB624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Aliquot Volume: ____(ul

CAS NO.

Soil Extract Volume: ____(uL)

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q

108-90-7Chlorobenzene	6	U
100-41-4Ethylbenzene	6	U
100-42-5Styrene	6	U
75-25-2Bromoform	6	U
98-82-8Isopropyl Benzene	6	U
79-34-51,1,2,2-Tetrachloroethane	6	U
541-73-11,3-Dichlorobenzene	. 6	U
106-46-71,4-Dichlorobenzene	6	U
95-50-11,2-Dichlorobenzene	6	U
96-12-81,2-Dibromo-3-Chloropropane	6	Ū
120-82-11,2,4-Trichlorobenzene	6	U
1330-20-7Xylene (total)	1	J
79-20-9Methyl acetate	6	U
110-82-7Cyclohexane	6	U
108-87-2Methylcyclohexane	6	TI

SSMW08-1

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-5

Sample wt/vol: 4.55(g/mL) G

Lab File ID: Q2812-5A59

Level: (low/med) LOW

Date Received: 12/04/02

% Moisture: not dec. 13

Date Analyzed: 12/10/02

GC Column: ZB624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

CONCENTRATION UNITS:

Soil Aliquot Volume: ____(uL

CAS NO.	COMPOUND (ug/L or ug/		Q	
75-71-8	Dichlorodifluoromethane	6	U	-
74-87-3	Chloromethane		Ū	1
75-01-4	Vinyl Chloride	ĺ	Ū	1
74-83-9	Bromomethane	ϵ	U	1
75-00-3	Chloroethane	ϵ	U	
75-69-4	Trichlorofluoromethane	2	JB	
75-35-4	1.1-Dichloroethene	6		
75-15-0	Carbon disulfide	6	U	
76-13-1	1,1,2-trichloro-1,2,2-triflu	2		
67-64-1	·Acetone /		JB	1
75-09-2	Methylene Chloride	8	В	1
156-60-5	trans-1.2-Dichloroethere	0.8	JB	,
163 4- 04-4	Methvl-tert-butvl ether	6	1	1
/5~34-3	·1.1-Dichloroethane	6	1 .	İ
156-59-2	cis-1.2-Dichloroethene		Ü	
/8-93-3	2-butanone		Ŭ	
67-66-3 <i>-</i>	Chloroform	- 6	1	
71-55-6	1,1,1-Trichloroethane	6	· ·	
56~23-5	Carbon Tetrachloride	6	1 -	1
/1-43-2	Renzene	6		
107-06-2	1,2-Dichloroethane	6	ľŭ	1
/3-01-6	Trichloroethene	0.7		1
78-87-5 <i>-</i>	1,2-Dichloropropane	6	U	Ι.
/5-27-4	Bromodichloromethane	6	Ŭ	-
10061-01-5	cis-1.3-Dichloronronene	6	U	
108-10-1	4-Methyl-2-pentanone	14	I -	
108-88-3	Toluene	4		1
10061-02-6	trans-1,3-Dichloropropene	6		`
/9-00-5	l.1.2-Trichloroethane	6	Ü	
127-18-4	Tetrachloroethene		lŭ	
5 91- 78-6	2-hexanone	16	1	
124-48-1	Dibromochloromethane		Ŭ	
106-93 - 4	1,2-Dibromoethane		บั	1

1330-20-7-----Xylene (total) 79-20-9-----Methyl acetate

108-87-2-----Methylcyclohexane

110-82-7-----Cyclohexane

CLIENT SAMPLE NO.

6 U

6 J U 6

6 U

6 U

SSMW08-1 Lab Name: COMPUCHEM Method: 8260B Case No.: Lab Code: LIBRTY SAS No.: SDG No.: Q2812 Lab Sample ID: Q2812-5 Matrix: (soil/water) SOIL Sample wt/vol: 4.55(q/mL) G Lab File ID: 02812-5A59 Level: (low/med) LOW Date Received: 12/04/02 % Moisture: not dec. 13 Date Analyzed: 12/10/02 GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0 Soil Extract Volume: (uL) Soil Aliquot Volume: _____(uL CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG 0 108-90-7-----Chlorobenzene 0.5 J 100-41-4----Ethylbenzene 0.7 J 100-42-5------Styrene 75-25-2------Bromoform 6 U 6 U 98-82-8-----Isopropyl Benzene 6 U 79-34-5-----1,1,2,2-Tetrachloroethane
541-73-1----1,3-Dichlorobenzene
106-46-7----1,4-Dichlorobenzene
95-50-1----1,2-Dichlorobenzene
96-12-8-----1,2-Dibromo-3-Chloropropane
120-82-1----1,2,4-Trichlorobenzene 6 U 6 U 0.4 J U 6 6 U

SSMW08-4

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: Q2812

Matrix: (soil/water) SOIL Lab Sample ID: Q2812-6

Sample wt/vol: 5.07(g/mL) G Lab File ID: Q2812-6A59

Level: (low/med) LOW Date Received: 12/04/02

% Moisture: not dec. 12 Date Analyzed: 12/10/02

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: ____(uL

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

	-, , 		- ,
75-71-8Dichlorodifluoromethane	6	บ	
74-87-3Chloromethane	6	ប៊	ł
75-01-4Vinyl Chloride	ő	บั]
74-83-9Bromomethane	6	Ŭ	ŧ
75-00-3Chloroethane	ő	Ŭ	İ
75-69-4Trichlorofluoromethane	ž	JВ	B
75-35-41,1-Dichloroethene	6	U	1
75-15-0Carbon disulfide	0.9	_	B
76-13-11,1,2-trichloro-1,2,2-triflu	1	J	
67-64-1Acetone	28	ſ	B
75-09-2Methylene Chloride	7	В	li
156-60-5trans-1,2-Dichloroethene	0.7		1
1634-04-4Methyl-tert-butyl ether		Ü	'
75-34-31,1-Dichloroethane	6	บั	ĺ
156-59-2cis-1,2-Dichloroethene	6	Ü	
78-93-32-butanone	14	_	
67-66-3Chloroform	6	Ü	ļ
71-55-61,1,1-Trichloroethane	6	Ü	ł
56-23-5Carbon Tetrachloride	. 6	บั	
71-43-2Benzene	6	Ü	}
107-06-21,2-Dichloroethane	6	บ	ļ
79-01-6Trichloroethene	0.7	JВ	B
78-87-51,2-Dichloropropane	6	U	~
75-27-4Bromodichloromethane	6	Ŭ	
10061-01-5cis-1,3-Dichloropropene	6	Ŭ	
108-10-14-Methyl-2-pentanone	8	J	
108-88-3Toluene	3	JВ	8
10061-02-6trans-1,3-Dichloropropene	6	U	10
79-00-51,1,2-Trichloroethane	6	Ü	
127-18-4Tetrachloroethene	3	JВ	B
591-78-62-hexanone	14		الا
124-48-1Dibromochloromethane	6	Ü	Ī
106-93-41,2-Dibromoethane	6	Ü	
	0	U	1
FORM I VOA			_!

CLIENT SAMPLE NO.

SSMW08-4

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: Q2812

Matrix: (soil/water) SOIL Lab Sample ID: Q2812-6

Sample wt/vol: 5.07(g/mL) G Lab File ID: Q2812-6A59

Level: (low/med) LOW Date Received: 12/04/02

% Moisture: not dec. 12 Date Analyzed: 12/10/02

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Aliquot Volume: ____(uL Soil Extract Volume: (uL)

CONCENTRATION UNITS:

108-90-7	CAS NO.	COMPOUND	(ug/L or	ug/Kg)	UG/KG	Q
	100-41-4 100-42-5 75-25-2 98-82-8 79-34-5 541-73-1 106-46-7 95-50-1 120-82-1 1330-20-7 79-20-9 110-82-7	EthylbenzeneStyreneBromoformIsopropyl Ben1,1,2,2-Tetra1,4-Dichlorob1,2-Dichlorob1,2-Dibromo-31,2,4-TrichloromXylene (total	nzene achloroethane benzene benzene 3-Chloropropa: brobenzene		0.6 6 6 6 0.3 6 6 6 6 6 6 6	טטנטטנטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטט

SSMW10-0

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY Case No.:

SAS No.: SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-11

Sample wt/vol: 3.24(g/mL) G

Lab File ID: 02812-11A59

Level: (low/med) LOW

Date Received: 12/04/02

% Moisture: not dec. 11

Date Analyzed: 12/10/02

GC Column: ZB624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or u	g/Kg) UG/KG	Q	
75-71-8	Dichlorodifluoromethane	9	U	lus
74-87-3	Chloromethane		ΰ	100
75-01-4	Vinyl Chloride	- 9		11
74-83-9	Bromomethane	9		11
75-00-3	Chloroethane	9		1
75-69-4	Trichlorofluoromethane	_ 3	JВ	B
75-35-4	1,1-Dichloroethene	_ 9		us
75-15-0	Carbon disulfide	l	JВ	B
76-13-1	1,1,2-trichloro-1,2,2-trifI	<u>u</u> 2		3
67-64-1	Acetone	57	B	B
75-09-2	Methylene Chloride		B	
156-60-5	trans-1,2-Dichloroethene	_ 1		11
1634-04-4	Methyl-tert-butyl ether	- 9		us
75-34-3	1,1-Dichloroethane		บั	li .
156-59-2	cis-1,2-Dichloroethene	- š	Ιΰ	11
78-93-3	2-butanone	- 5	IJ	5
67-66-3	Chloroform		Ŭ	นร
71-55-6	1,1,1-Trichloroethane	-	Ü	1
56-23-5	Carbon Tetrachloride	- ś	Ü	11
71-43-2	Benzene	9	Ü	11
107-06-2	1,2-Dichloroethane	_ 3	Ĵ	3
79-01-6	Trichloroethene	- 1	JВ	B
78-87-5	1,2-Dichloropropane	_ 9	U	W
75-27-4	Bromodichloromethane	- 9	Ιŭ	1.4
10061-01-5~~	cis-1,3-Dichloropropene	_ 9	Ü	11
108-10-1	4-Methyl-2-pentanone	_ 11	IJ	1
108-88-3	Toluene	- 4	JB	B
10061-02-6	trans-1,3-Dichloropropene	_	U	W.
79-00-5	1,1,2-Trichloroethane	- 9	Ιΰ	l'i
127-18-4	Tetrachloroethene	- ś	Ü	11
591-78-6 -	2-hexanone	230	١	5
124-48-1	Dibromochloromethane	- 230	U	us
106-93-4	1,2-Dibromoethane	_ 9	Ŭ	1
	FORM I VOA	_1	1	, ,
				3/24

CLIENT SAMPLE NO.

SSMW10-0

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: Q2812

Matrix: (soil/water) SOIL Lab Sample ID: Q2812-11

Sample wt/vol: 3.24(g/mL) G Lab File ID: Q2812-11A59

Level: (low/med) LOW Date Received: 12/04/02

% Moisture: not dec. 11
Date Analyzed: 12/10/02

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL

108-90-7Chlorobenzene 9 U U 100-41-4Ethylbenzene 0.7 J J 100-42-5Styrene 9 U U 75-25-2Bromoform 9 U U 98-82-8Isopropyl Benzene 9 U U 79-34-51,1,2,2-Tetrachloroethane 9 U U 541-73-11,3-Dichlorobenzene 9 U U 106-46-71,4-Dichlorobenzene 9 U U 95-50-11,2-Dichlorobenzene 9 U U 96-12-81,2-Dibromo-3-Chloropropane 9 U U	CAS NO.		NCENTRATION U g/L or ug/Kg)		Q		
120-82-11,2,4-Trichlorobenzene 9 U 1 1330-20-7Xylene (total) 6 J 5 79-20-9Methyl acetate 69 U 10-82-7Cyclohexane 9 U 108-87-2Methylcyclohexane 9 U 104/7	100-41-4 100-42-5 75-25-2 98-82-8 79-34-5 541-73-1 106-46-7 95-50-1 96-12-8 120-82-1 1330-20-7 79-20-9 110-82-7	EthylbenzeneStyreneBromoformIsopropyl Benzene1,1,2,2-Tetrachloro1,3-Dichlorobenzene1,4-Dichlorobenzene1,2-Dichlorobenzene1,2-Dibromo-3-Chlor1,2,4-TrichlorobenzXylene (total)Methyl acetate	opropane	0.7 99 99 99 0.4 99 69 9	J U U U U U U U U U U U U U U U U U U U	ユロー コロー コロー コロー コロー コー	

FORM I VOA

SSMW10-4

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-12

Sample wt/vol:

Lab File ID: Q2812-12RA59

Level: (low/med)

4.86(g/mL) G

Date Received: 12/04/02

LOW

% Moisture: not dec. 13

Date Analyzed: 12/11/02

GC Column: ZB624

ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Aliquot Volume: (uL

Soil Extract Volume: ____(uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

CAS NO. COMPOUND

75-71-8		· · · · · · · · · · · · · · · · · · ·	 	1	-1
74-87-3	75-71-8	Dichlorodifluoromethane	6	11	
75-01-4	74-87-3	Chloromethane			
74-83-9	75-01-4	Vinvl Chloride		1 -	
75-00-3	74-83-9	Bromomethane		I ~	1
75-69-4Trichlorofluoromethane 75-35-41,1-Dichloroethene 75-15-0	75-00-3	Chloroethane		ı ~	ļ
75-35-4	75-69-4	Trichlorofluoromethane		1 -	
75-15-0	75-35-4	1.1-Dichloroethene		_	
Total	75-15-0	Carbon disulfide) 2	1 ~	1
67-64-1	76-13-1	1.1.2-trichloro-1 2 2-trifly		, –	10
75-09-2	67-64-1	Acetone	_	l ob	120
156-60-5trans-1,2-Dichloroethene 6 U 1634-04-4Methyl-tert-butyl ether 75-34-31,1-Dichloroethane 6 U 156-59-2	75-09-2	Methylene Chloride		l 5	- L
1634-04-4	156-60-5	trans-1 2-Dichloroethere			
75-34-3	1634-04-4	Methyl-tert-butyl ether		_	
156-59-2	75-34-3	1.1-Dichloroethane		•	İ
78-93-32-butanone 67-66-3Chloroform 71-55-61,1,1-Trichloroethane 60 U 56-23-5Carbon Tetrachloride 71-43-2Benzene 107-06-21,2-Dichloroethane 79-01-6Trichloroethene 78-87-51,2-Dichloropropane 75-27-4Bromodichloromethane 10061-01-5cis-1,3-Dichloropropene 108-88-3Toluene 10061-02-6trans-1,3-Dichloropropene 79-00-51,1,2-Trichloroethane 127-18-4Tetrachloroethene 591-78-62-hexanone 124-48-1Dibromochloromethane 106-93-41,2-Dibromoethane 106-93-41,2-Dibromoethane 106-93-41,2-Dibromoethane 106-93-41,2-Dibromoethane 106-93-41,2-Dibromoethane 15 U 15 U 15 U 15 U 15 U 15 U 15 U 15 U	156-59-2	cis-1.2-Dichloroethene		-	
67-66-3	78-93-3	2-butanone		1 -	
71-55-6	67-66-3	Chloroform			
56-23-5Carbon Tetrachloride 6 U 71-43-2Benzene 6 U 107-06-21,2-Dichloroethane 6 U 79-01-6Trichloroethene 6 U 78-87-51,2-Dichloropropane 6 U 75-27-4Bromodichloromethane 6 U 10061-01-5Bromodichloropropene 6 U 108-10-1	71-55-6	1 1 1-Trichloroethane	1	_	
71-43-2	56-23-5	Carbon Tetrachloride	1	_	
107-06-21,2-Dichloroethane 79-01-6Trichloroethene 78-87-51,2-Dichloropropane 75-27-4Bromodichloromethane 10061-01-5cis-1,3-Dichloropropene 108-10-14-Methyl-2-pentanone 108-88-3Toluene 10061-02-6trans-1,3-Dichloropropene 79-00-51,1,2-Trichloroethane 127-18-4Tetrachloroethene 591-78-62-hexanone 124-48-1Dibromochloromethane 106-93-41,2-Dibromoethane 106-93-41,2-Dibromoethane 106-93-41,2-Dibromoethane	71-43-2	Benzene		_	
79-01-6Trichloroethene 78-87-51,2-Dichloropropane 75-27-4Bromodichloromethane 10061-01-5cis-1,3-Dichloropropene 108-10-14-Methyl-2-pentanone 108-88-3Toluene 10061-02-6trans-1,3-Dichloropropene 79-00-51,1,2-Trichloroethane 127-18-4Tetrachloroethene 591-78-62-hexanone 124-48-1Dibromochloromethane 106-93-41,2-Dibromoethane 6 U 6 U 7 D 7 D 7 D 7 D 7 D 7 D 7 D 7 D 7 D 7 D	107-06-2	1 2-Dichloroethane		-	
78-87-51,2-Dichloropropane 6 U 75-27-4Bromodichloromethane 6 U 10061-01-5cis-1,3-Dichloropropene 6 U 108-10-14-Methyl-2-pentanone 15 U 108-88-3Toluene 2 JB 10061-02-6trans-1,3-Dichloropropene 6 U 79-00-51,1,2-Trichloroethane 6 U 127-18-4Tetrachloroethene 6 U 591-78-62-hexanone 15 U 124-48-1Dibromochloromethane 6 U 106-93-41,2-Dibromoethane 6 U	79-01-6	Trichloroethene	l :	-	
75-27-4Bromodichloromethane 10061-01-5cis-1,3-Dichloropropene 108-10-14-Methyl-2-pentanone 108-88-3Toluene 10061-02-6trans-1,3-Dichloropropene 79-00-51,1,2-Trichloroethane 127-18-4Tetrachloroethene 591-78-62-hexanone 124-48-1Dibromochloromethane 106-93-41,2-Dibromoethane 6 U 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	78-87-5	1 2-Dichloropropage	1	_	
10061-01-5cis-1,3-Dichloropropene 108-10-14-Methyl-2-pentanone 108-88-3Toluene 10061-02-6trans-1,3-Dichloropropene 79-00-51,1,2-Trichloroethane 127-18-4Tetrachloroethene 591-78-62-hexanone 124-48-1Dibromochloromethane 106-93-41,2-Dibromoethane 6 U	75-27-4	Bromodichloromethane		_	1
108-10-14-Methyl-2-pentanone 108-88-3Toluene 10061-02-6trans-1,3-Dichloropropene 79-00-51,1,2-Trichloroethane 127-18-4Tetrachloroethene 591-78-62-hexanone 124-48-1Dibromochloromethane 106-93-41,2-Dibromoethane 6 U 15 U 16 U 17 U 18 U 19 U 19 U 19 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10	10061-01-5	Cis-1 3-Dichloropropens		-	1
108-88-3Toluene 2 JB 10061-02-6trans-1,3-Dichloropropene 6 U 79-00-51,1,2-Trichloroethane 6 U 127-18-4Tetrachloroethene 6 U 591-78-62-hexanone 15 U 124-48-1Dibromochloromethane 6 U 106-93-41,2-Dibromoethane 6 U	108-10-1	4-Methyl-2-pentanone		_	
10061-02-6trans-1,3-Dichloropropene 6 U 79-00-51,1,2-Trichloroethane 6 U 127-18-4Tetrachloroethene 6 U 591-78-62-hexanone 15 U 124-48-1Dibromochloromethane 6 U 106-93-41,2-Dibromoethane 6 U	108-88-3	Toluene		_	1
79-00-5	10061-02-6	trang-1 3-Dightoronyonon			ען
127-18-4Tetrachloroethene 6 U 591-78-62-hexanone 15 U 124-48-1Dibromochloromethane 6 U 106-93-41,2-Dibromoethane 6 U 106-93-4	79-00-5	1 1 2-Trichloroethano		_	
591-78-62-hexanone 15 U 124-48-1Dibromochloromethane 6 U 106-93-41,2-Dibromoethane 6 U	127-18-4	Tetrachloroothone		_	1
124-48-1Dibromochloromethane 6 U U	591-78-6	2-hevanone		_	
106-93-4	124-48-1	Dibromochloromethane		-	1
	106-93-4	1 2-Dibromoothane	=	_	1
FOUNT TO	200 23 4	1,2 DIDIOMOECHANE	6	U	
FORM L VOA		FORM I VOA			.1

CLIENT SAMPLE NO.

SSMW10-4

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: Q2812

Matrix: (soil/water) SOIL Lab Sample ID: Q2812-12

Sample wt/vol: 4.86 (g/mL) G Lab File ID: Q2812-12RA59

Level: (low/med) LOW Date Received: 12/04/02

% Moisture: not dec. 13 Date Analyzed: 12/11/02

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL

CONCENTRATION UNITS:

CAS NO. (ug/L or ug/Kg) UG/KG COMPOUND Q 108-90-7-----Chlorobenzene U 6 100-41-4-----Ethylbenzene 6 U 100-42-5----Styrene U 6 75-25-2-----Bromoform U 6 98-82-8-----Isopropyl Benzene 6 U 79-34-5-----1,1,2,2-Tetrachloroethane 6 U 541-73-1----1,3-Dichlorobenzene 6 U 106-46-7-----1,4-Dichlorobenzene 6 U 95-50-1----1,2-Dichlorobenzene 6 U 96-12-8-----1,2-Dibromo-3-Chloropropane 120-82-1----1,2,4-Trichlorobenzene U 6 6 U 1330-20-7------Xylene (total)
79-20-9-------Methyl acetate
110-82-7-------Cyclohexane U 18 U 6 6 U 108-87-2-----Methylcyclohexane 6 U

CLIENT SAMPLE NO.

SDG No.: Q2812

SSMW10D-4

Lab Name: COMPUCHEM

Method: 8260B

SAS No.:

Case No.:

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-13

Sample wt/vol:

Lab Code: LIBRTY

4.48(g/mL) G

Lab File ID: 02812-13RA59

Level: (low/med) LOW

Date Received: 12/04/02

% Moisture: not dec. 15

Date Analyzed: 12/11/02

GC Column: ZB624

ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: ____(uL

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q

GE 51 0			Ţ.	_
75-/1-8	Dichlorodifluoromethane	7	Ū	
74-87-3	Chloromethane	7	1 -	
75-01-4	Vinyl Chloride	7	U	
74-83-9	Bromomethane	7	U	
75-00-3	Chloroethane	7	U	
75-69-4	Trichlorofluoromethane	0.8	J	
75-35-4	1,1-Dichloroethene	7	U	
75-15-0	Carbon disulfide	2	J	
76-13-1	$1,1,2$ -trichloro- $\overline{1,2,2}$ -triflu	1	JВ	13
67-64-1	Acetone	18		
75-09-2	Methylene Chloride	7	B	$- \mathcal{B} $
156-60-5	trans-1.2-Dichloroethene	7	Ū	
1634-04-4	Methyl-tert-butyl ether	7	Ū	İ
75-34-3	1,1-Dichloroethane	7	บั	ļ
156-59-2	cis-1,2-Dichloroethene	7	Ü	
78-93-3	2-butanone	16	1 -	
67-66-3	Chloroform	7	1	1
71-55-6	1,1,1-Trichloroethane	7	บั	
56-23-5	Carbon Tetrachloride	7	υ	
71-43-2	Benzene	7	บี	ł
107-06-2	1,2-Dichloroethane	7	υ	
79-01-6	Trichloroethene	7	បី	
78-87-5	1,2-Dichloropropane	•	-	
75-27-4	Bromodichloromethane	7	U	
10061-01-5	cis-1,3-Dichloropropene	7	U	j
108-10-1	4-Methyl-2-pentanone	7	ū	1
108-88-3	-4-Methy1-2-pentanone	5	J	1
100 00 3	trans-1,3-Dichloropropene	3	JB	C
79_00_5	1 1 2 Trickless the	7	U	
127 10 1	1,1,2-Trichloroethane	7	U	i i
12/-10-4 -	Tetrachloroethene	7	U	
391-78-6 -	2-hexanone	16	U	-
124-48-1 	Dibromochloromethane	7	U	
106-93-4	1,2-Dibromoethane	7	U	
	FORM I VOA			_l _b

CLIENT SAMPLE NO.

SSMW10D-4 Lab Name: COMPUCHEM Method: 8260B Lab Code: LIBRTY Case No.: SAS No.: SDG No.: Q2812 Matrix: (soil/water) SOIL Lab Sample ID: Q2812-13 Sample wt/vol: 4.48(g/mL) G Lab File ID: Q2812-13RA59 Level: (low/med) LOW Date Received: 12/04/02 % Moisture: not dec. 15 Date Analyzed: 12/11/02 GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0 Soil Extract Volume: (uL) Soil Aliquot Volume: _____(u

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/I		Q
100-41-4 100-42-5 75-25-2 98-82-8 79-34-5 541-73-1 106-46-7 95-50-1 96-12-8 120-82-1 79-20-9 110-82-7	BromoformIsopropyl Benze1,1,2,2-Tetrach1,3-Dichloroben1,4-Dichloroben1,2-Dichloroben1,2-Dibromo-3-C1,2,4-TrichloroXylene (total)Methyl acetate	loroethanezene	7 7 7 7 7 7 7 7 7 2 7	מממהממממממממ

CLIENT SAMPLE NO.

SSMW11-1

Lab Name: COMPUCHEM Method: 8260B

Case No.:

SDG No.: Q2812

1 J

1 JB

6 U 6 U

6 U

6 U

16 U

> 6 U

> 6 U

> 6 U

> 6 U

> 6 U

> 6 U

> 6 I U

6 U

6 U

2 JB 6 U

6 U 6 U

16 U

6 U 6 U

16 U

B 7

25

Matrix: (soil/water) SOIL

Lab Sample ID: 02812-7

4.02(q/mL) G

Lab File ID: 02812-7RA59

Level:

Sample wt/vol:

Lab Code: LIBRTY

(low/med) LOW

Date Received: 12/04/02

% Moisture: not dec. 4

Date Analyzed: 12/11/02

ID: 0.32 (mm) Dilution Factor: 1.0

SAS No.:

GC Column: ZB624

Soil Extract Volume: (uL)

CONCENTRATION UNITS:

Soil Aliquot Volume: (uL

B

B

B

CAS NO.	COMPOUND	(ug/L or ug/Kg) U	G/KG	Q
74-87-3 75-01-4 74-83-9 75-00-3 75-69-4	DichlorodifluChloromethaneVinyl ChloridBromomethaneChloroethaneTrichlorofluo1,1-Dichloroe	e	6 6 6 6	n n n n

75-15-0-----Carbon disulfide 76-13-1----1,1,2-trichloro-1,2,2-triflu 67-64-1-----Acetone

75-09-2-----Methylene Chloride 156-60-5----trans-1,2-Dichloroethene

1634-04-4-----Methyl-tert-butyl ether 75-34-3-----1,1-Dichloroethane 156-59-2----cis-1,2-Dichloroethene

78-93-3----2-butanone 67-66-3-----Chloroform

71-55-6----1,1,1-Trichloroethane 56-23-5-----Carbon Tetrachloride_

71-43-2-----Benzene

107-06-2----1,2-Dichloroethane 79-01-6-----Trichloroethene

78-87-5-----1,2-Dichloropropane

75-27-4-----Bromodichloromethane 10061-01-5----cis-1,3-Dichloropropene

108-10-1----4-Methyl-2-pentanone

108-88-3-----Toluene
10061-02-6----trans-1,3-Dichloropropene

79-00-5-----1,1,2-Trichloroethane
127-18-4-----Tetrachloroethene

591-78-6---2-hexanone

124-48-1----Dibromochloromethane 106-93-4-----1,2-Dibromoethane

FORM I VOA

1330-20-7-----Xylene (total)

79-20-9-----Methyl acetate

108-87-2----Methylcyclohexane

110-82-7-----Cyclohexane

CLIENT SAMPLE NO.

1 J

6 U

6 | U

6 U

SSMW11-1 Lab Name: COMPUCHEM Method: 8260B SAS No.: Lab Code: LIBRTY Case No.: SDG No.: Q2812 Matrix: (soil/water) SOIL Lab Sample ID: Q2812-7 4.02(q/mL) G Sample wt/vol: Lab File ID: Q2812-7RA59 Level: (low/med) LOW Date Received: 12/04/02 % Moisture: not dec. 4 Date Analyzed: 12/11/02 GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0 Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG 0 108-90-7-----Chlorobenzene_ 100-41-4-----Ethylbenzene_ 6 U 6 U 100-42-5------Styrene 75-25-2------Bromoform 6 U U 6 98-82-8-----Isopropyl Benzene 6 U 79-34-5----1,1,2,2-Tetrachloroethane 6 U 541-73-1----1,3-Dichlorobenzene 6 U 106-46-7----1,4-Dichlorobenzene 6 U 95-50-1----1,2-Dichlorobenzene 6 U 96-12-8----1,2-Dibromo-3-Chloropropane U 6 120-82-1----1,2,4-Trichlorobenzene 6 U

SSMW11-4

Lab Name: COMPUCHEM Method: 8260B

Case No.:

SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-8

Sample wt/vol:

Lab Code: LIBRTY

4.66(g/mL) G

Lab File ID: Q2812-8RA59

Level: (low/med)

LOW

Date Received: 12/04/02

% Moisture: not dec. 15

Date Analyzed: 12/11/02

GC Column: ZB624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: ____(uL

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

75 71 0	Dighlomodifl	_			1
73-71-0	Dichlorodifluoromethane	. 0.		JB	10
74-07-3	Chloromethane			U	
75-01-4	Vinyl Chloride			U	
74-83-9	Bromomethane		6	U	1
75-00-3	Chloroethane		6 1	U	
/5-69-4	Trichlorofluoromethane		6 1	U	1
/5-35-4	1,1-Dichloroethene		6	U	
/5-15-0	Carbon disulfide			U	
/6-13-1	1,1,2-trichloro-1,2,2-triflu			JB	B
7-64-1	Acetone	1		J	
/5-09-2	Methylene Chloride		7]]	В	10
.56-60-5	trans-1,2-Dichloroethene		6 1	U	
634-04-4	Methyl-tert-butyl ether		6 1		
/5-34-3	1.1-Dichloroethane		6 1		1
56-59-2	cis-1,2-Dichloroethene		6 1		1
′8-93-3 - -	2-butanone	1	6 1		1
57-66-3 -	Chloroform	_	6 1		1
'1 - 55-6 -	1,1,1-Trichloroethane		6 1		
6-23-5	Carbon Tetrachloride		6 1		
'1-43 <i>-</i> 2 <i></i>	Benzene		- 1	J	
.07-06-2 -	1,2-Dichloroethane	ŀ		IJ	
′9-01-6	Trichloroethene	1	`	J	
'8-87-5 	1,2-Dichloropropane		6 1		
[5-27-4	Bromodichloromethane		6 1		
0061-01-5	cis-1,3-Dichloropropene	Ì	6 1		
08-10-1	4-Methyl-2-pentanone		6 1		1
08-88-3	Toluene			JB	B
0061-02-6-~	trans-1 3-Dichloropropens		6 1		10
9-00-5	1,1,2-Trichloroethane			_	
27-18-4	Tetrachloroethene	İ	- 1 '	-	}
91-78-6	2-hexanone	I .	6 1	_	
24-48-1	Dibromochloromethane	· ·	6 1		
06-93-4	1,2-Dibromoethane		6 1	-	ł
	1,2 DIDIOMOECHANE		6 L	J	
	FORM I VOA		_ _		1

CLIENT SAMPLE NO.

SSMW11-4 Lab Name: COMPUCHEM Method: 8260B Lab Code: LIBRTY Case No.: SAS No.: SDG No.: Q2812 Matrix: (soil/water) SOIL Lab Sample ID: Q2812-8 Sample wt/vol: 4.66(g/mL) G Lab File ID: 02812-8RA59 Level: (low/med) LOW Date Received: 12/04/02 % Moisture: not dec. 15 Date Analyzed: 12/11/02 GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0 Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG 0

CLIENT SAMPLE NO.

SDG No.: Q2812

SSMW11D-1

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.:

Matrix: (soil/water) SOIL Lab Sample ID: Q2812-9

Sample wt/vol: 4.05(g/mL) G Lab File ID: Q2812-9RA59

Level: (low/med) LOW Date Received: 12/04/02

% Moisture: not dec. 3 Date Analyzed: 12/11/02

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uI

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q 6 U 75-71-8-----Dichlorodifluoromethane 74-87-3-----Chloromethane 6 U 6 U 6 U 6 U 75-01-4-----Vinyl Chloride 74-83-9-----Bromomethane 75-00-3-----Chloroethane 75-69-4-----Trichlorofluoromethane 75-35-4-----1,1-Dichloroethene____ 6 U 75-15-0-----Carbon disulfide 6 IJ 76-13-1----1, 1, 2-trichloro- $\overline{1,2,2-triflu}$ 1 JB 67-64-1-----Acetone 17 7 B B 75-09-2-----Methylene Chloride 156-60-5-----trans-1,2-Dichloroethene 6 U 1634-04-4-----Methyl-tert-butyl ether 6 U 75-34-3-----1,1-Dichloroethane 6 U 156-59-2----cis-1,2-Dichloroethene 6 U 78-93-3----2-butanone 16 U 67-66-3-----Chloroform 66666 U 71-55-6-----1,1,1-Trichloroethane U 56-23-5-----Carbon Tetrachloride___ U 71-43-2-----Benzene U 107-06-2----1,2-Dichloroethane U 79-01-6-----Trichloroethene 78-87-5-----1,2-Dichloropropane U 6 U 75-27-4-----Bromodichloromethane 6 U 10061-01-5-----cis-1,3-Dichloropropene 6 U 108-10-1----4-Methyl-2-pentanone 16 U 108-88-3-----Toluene 10061-02-6----trans-1,3-Dichloropropene 79-00-5-----1,1,2-Trichloroethane B 2 JB 6 U 6 U 127-18-4----Tetrachloroethene 6 U 591-78-6----2-hexanone 16 U 124-48-1-----Dibromochloromethane 6 U 106-93-4-----1,2-Dibromoethane 6 U FORM I VOA

CLIENT SAMPLE NO.

SSMW11D-1

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.: SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-9

Sample wt/vol:

4.05(g/mL) G

Lab File ID: Q2812-9RA59

Level: (low/med) LOW

Date Received: 12/04/02

CAS NO.

% Moisture: not dec. 3

Date Analyzed: 12/11/02

GC Column: ZB624 ID: 0.32 (mm)

COMPOUND

Dilution Factor: 1.0

Soil Aliquot Volume: ____(uI

Soil Extract Volume:____(uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Q

108-90-7	6 6 6 6 6 6 6 6	מ מ מ מ מ מ מ מ מ מ מ מ מ מ מ מ מ מ מ
1330-20-7Xylene (total) 79-20-9Methyl acetate	6 19	U
110-82-7	6	U U
	б	U

SSMW11D-4

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-10

Sample wt/vol:

4.96(q/mL) G

Lab File ID: 02812-10A59

Level: (low/med) LOW

Date Received: 12/04/02

% Moisture: not dec. 14

Date Analyzed: 12/10/02

GC Column: ZB624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: ____(uI

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

0

75-71-8	Dichlorodifluoromethane	0.6	J	
74-87-3	Chloromethane	6	U	1
75-01-4	Vinyl Chloride	6	U	1
74-83-9	Bromomethane	6	U.	-
75-00-3	Chloroethane	6	U	
75-69-4	Trichlorofluoromethane	2	JB	16
75-35-4	1,1-Dichloroethene	6	ប	-
75-15-0- <i></i>	Carbon disulfide	6	υ	- 1
76-13-1 	1,1,2-trichloro-1,2,2-triflul	2	J	
67-64-1 	Acetone	16		E)
75-09-2	Methylene Chloride	8	B	B
156-60-5	trans-1.2-Dichloroethene	0.9	JB	30
1634-04-4- <i>-</i> -	Methyl-tert-butyl ether		Ü	1
75-34-3	1,1-Dichloroethane		Ū	-
156 - 59-2	cis-1,2-Dichloroethene		Ŭ	
78-93 - 3	2-butanone	15	_	
67-66-3	Chloroform		Ū	
71 - 55-6	1,1,1-Trichloroethane		Ŭ	
56-23-5- -	Carbon Tetrachloride		Ū	
71-43-2	Benzene	6	ΰ	
107-06-2	1,2-Dichloroethane		Ū	- 1
79-01-6	Trichloroethene	0.5		B
78-87-5- -	1,2-Dichloropropane		U	_
/5-27-4	Bromodichloromethane		Ü	
10061-01-5 	cis-1.3-Dichloropropene	6	Ŭ	
108-10-1	4-Methyl-2-pentanone	16		-
108-88-3	Toluene		JB	- 3
10061-02-6	trans-1,3-Dichloropropene		U	u
/9-00-5 	1,1,2-Trichloroethane	6		1
127-18-4	Tetrachloroethene	ž	JВ	B
591 - 78-6	2-hexanone	15		lu.
L24-48-1	Dibromochloromethane		Ü	14
L06-93-4	1,2-Dibromoethane	- 1	U	
		١	J	' '

CLIENT SAMPLE NO.

SSMW11D-4

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: Q2812

Matrix: (soil/water) SOIL Lab Sample ID: Q2812-10

Sample wt/vol: 4.96(g/mL) G Lab File ID: 02812-10A59

Level: (low/med) LOW Date Received: 12/04/02

% Moisture: not dec. 14 Date Analyzed: 12/10/02

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uI

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q uТ 108-90-7-----Chlorobenzene 6 U 100-41-4-----Ethylbenzene 0.6 J 100-42-5----Styrene 6 | U 75-25-2-----Bromoform U 98-82-8-----Isopropyl Benzene
79-34-5-----1,1,2,2-Tetrachloroethane
541-73-1-----1,3-Dichlorobenzene U 6 6 6 U U U 6 U 6 U 6 U 7 J 6 U U 6 U

3/24/13

CLIENT SAMPLE NO. SSMW11D-4RE SDG No.: Q2812 Lab Sample ID: Q2812-10 02812-10RA59 Lab File ID: Date Received: 12/04/02 Date Analyzed: 12/11/02 Soil Aliquot Volume: (uL 0 6 U 6 U 6 U 6 U 6 U 0.7 J 6 U 6 U 1 JB 22 8 B 6 U 6 U 6 U 6 U 16 U 6 U 6 U 6 U 6 U 6 U 6 U 6 U 6 U 6 I U 16 U JB 2 6 U 6 U 6 U 16 U U 6 6 U

Method: 8260B

Lab Name: COMPUCHEM

Lab Code: LIBRTY Case No.:

SAS No.:

Matrix: \(soil/water) SOIL

Sample wt\vol: Level: (Now/med) LOW

4.66(g/mL) G

% Moisture: Not dec. 14

GC Column: ZB624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

75-71-8------Dichlorodifluoromethane_74-87-3------Chloromethane_ 75-01-4------Vinyl Chloride 74-83-9-----Bromomethane 75-00-3------Chloroethane
75-69-4-----Tricklorofluoromethane
75-35-4------1,1-Dichloroethene
75-15-0------Carbon disulfide 76-13-1-----1,1,2-trichloro-7,2,2-triflu 67-64-1-----Acetone 75-09-2-----Methylene Chloride 156-60-5----trans-1,2-Dichloroethene 1634-04-4-----Methyl-tert-butyl ether 75-34-3-----1,1-Dichloroethane_ 156-59-2----cis-1,2-Dichloroethene_ 78-93-3-----é 67-66-3-----Chloroform 71-55-6----1,1,1-Trichloroethane 56-23-5-----Carbon Tetrachloride 71-43-2-----Benzene 107-06-2----1,27Dichloroethane 79-01-6------Trichloroethene
78-87-5------1,2-Dichloropropane
75-27-4------Bromodichloromethane 10061-01-5-----cis-1,3-Dichloropropene 108-10-1------4-Methyl-2-pentanone 108-88-3----/--Toluene 10061-02-6--/--trans-1,3-Dichloropropene 79-00-5----/---1,1,2-Trichloroethane 127-18-4--/----Tetrachloroethene 591-78-6-/-----2-hexanone 124-48-1/-----Dibromochloromethane 106-93-4-----1,2-Dibromoethane FORM I VOA

66

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM	Method: 8260B SSMW11D-4RE
Lab Code: LIBRTY Case No.:	SAS No.: SDG No.: Q2812
Matrix: (soil/water) SOIL	Lab Sample ID: Q2812-10
Sample wt/vol: $4.66 (g/mL) G$	Lab File ID: Q2812 10RA59
Level: (low/med) LOW	Date Received: 12/04/02
% Moisture: not dec. 14	Date Analyzed: 12/11/02
GC Column: ZB624 ID: 0.32 (mm)	Dilution Factor: 1.0
Soil Extract Volume:(\ullet_L)	Soil Aliquot Volume:(uI
CAS NO. COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q
108-90-7	chloroethane enzene enzene enzene Chloropropane cobenzene Game 6 U U U U U Chloropropane Gobenzene 6 U U Chloropropane Gobenzene 6 U U Chloropropane Gobenzene 6 U U Chloropropane Gobenzene 6 U U Chloropropane Gobenzene 6 U U Chloropropane Gobenzene 6 U U Chloropropane Gobenzene 6 U U Chloropropane Gobenzene 6 U U Chloropropane Gobenzene 6 U U Chloropropane Gobenzene 6 U Chloropropane Gobenzene Gob
	3/24/3

FORM I VOA

FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Lab	Name:	COMPUCHEM	Contract:	8260B	SS-MW09-0
					-

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: Q2812

Matrix: (soil/water) SOIL Lab Sample ID: Q2812-14

Sample wt/vol: 4.31 (g/mL) GLab File ID: Q2812-14A52

Level: (low/med) LOW Date Received: 12/11/02

% Moisture: not dec. 8 Date Analyzed: 12/20/02

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: (uL

CONCENTRATION INTERC Number TICs found: 1 (ug/L

ENTRATION UNITS:	1.3
L or ug/Kg) ug/Kg	3/24/03
	31 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 66-25-1 H 2	EXANAL	13.31	18.20	
5.				
8				
0. 1. 2. 3.				
5				
8.				
1. 2. 3				
4. 5				
8.				
0				

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SS-MW09-1 Contract: 8260B

Lab Name: COMPUCHEM

Lab Code: LIBRTY Case No.: SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-15

Sample wt/vol:

4.66 (g/mL) G

Lab File ID: Q2812-15A52

Level: (low/med) LOW

GC Column: EQUITY624 ID: 0.53 (mm)

Date Received: 12/11/02

% Moisture: not dec. 7

Date Analyzed: 12/20/02

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: ____(uL

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
				====
1		-		
3.		-		
4.		-		
5		~		
6				
7				
8.		_		
9.				
10.		-		
11.		-		
12.		- 1		
13.		-		
14.				
15.		_		
16.				
17.				
18.		- 		
19.		-		
20.		-		
20.		-		
21.				
22.				
23.		-		
		-		
20.		-		
27.		-		
29.				
30.		_		
J ·		_		

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SS-MW09-4

Lab Name:	COMPUCHEM

Number TICs found: 0

Contract: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab File ID:

Q2812-16B52

Sample wt/vol:

(low/med)

4.33 (g/mL) G

Date Received: 12/11/02

Lab Sample ID: Q2812-16

% Moisture: not dec. 9

Level:

Date Analyzed: 12/20/02

GC Column: EQUITY624 ID: 0.53 (mm)

LOW

Dilution Factor: 1.0

Soil Aliquot Volume: ____(uL

Soil Extract Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	
1		== ======	==========	===
2.				
3.		_		l
4.				-
5.				
6.		— — — — — — — — — — — — — — — — — — —		
7.				
8.				l
9				
0				
1.				
2				
J				
4.				
J. 1				
· ·				
/ ·				
8.				
9.				
0.			· · · · · · · · · · · · · · · · · · ·	
1.				
۷.				
3				
4.				
5.				
6				
7				
٠.				
- •			· · · · · · · · · · · · · · · · · · ·	
0				

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SSMW07-0

					S
Lab	Name:	COMPUCHEM	Contract:	8260B	

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: Q2812

Matrix: (soil/water) SOIL Lab Sample ID: Q2812-1

Sample wt/vol: 4.02 (g/mL) G Lab File ID: Q2812-1A59

Level: (low/med) LOW Date Received: 12/04/02

% Moisture: not dec. 5 Date Analyzed: 12/10/02

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Aliquot Volume: ____(uL Soil Extract Volume: ____(uL)

CONCENTRATION UNITS: Number TICs found: 0 (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
			========	=====
1				
2				
3.				ļ
5				ļ
6.				
7.				
8.				
0				
10.				ļ
11.				
12.		<u>,</u>		
13.		ľ 		
14.				
15.				
16				·
16.				
10.				
19.				
2.0.				
21. 22.				
24.				
25				
25.				
26.				
27.				
28.				
29.				
30.				

SAS No.:

FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: COMPUCHEM Contract: 8260B

Case No.:

SSMW07-1

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-2

Sample wt/vol:

Lab Code: LIBRTY

4.06 (g/mL) G

Lab File ID: Q2812-2A59

SDG No.: Q2812

Level: (low/med) LOW

Date Received: 12/04/02

% Moisture: not dec. 8

Date Analyzed: 12/10/02

GC Column: ZB624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

CONCENTRATION UNITS:

Soil Aliquot Volume: (uL

Number TICs found: 0

(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
		=======	==========	
1				
2	-			
4 -	-			
5.				
6.	-			
7.				
8				
		,		
10.				
+ + •				
12. 13.		Ì		
14.				
15				
10.				
T U .				•
1J.				
20.				
Z I .				
24.				
43.				
41.				
20.				
27.				
28.				
29.				
30.				

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SSMW07-4

Lab Name:	COMPUCHEM
-----------	-----------

Lab Code: LIBRTY

Contract: 8260B

Case No.:

SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-3

Sample wt/vol:

4.86 (g/mL) G

Lab File ID: Q2812-3A59

Level: (low/med)

LOW

Date Received: 12/04/02

% Moisture: not dec. 20

Date Analyzed: 12/10/02

GC Column: ZB624

ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q.
1				
۷.				
٠,				
± • 1				
D •				<u> </u>
8:				
9.				
10				
11.				
12.		ģ		
13.				
17.				
19.				
20.				
21.				
ZZ.				
43.				
44.				
25.				
26.				
27.				
28.				
30.		\		

FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Q2812-4RA59

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-4

Lab File ID:

Sample wt/vol:

4.09 (g/mL) G

Level: (low/med) LOW

Date Received: 12/04/02

% Moisture: not dec. 4

Date Analyzed: 12/11/02

GC Column: ZB624 ID: 0.32 (mm)

Dilution Factor: 1.0

Number TICs found: 1

Soil Aliquot Volume: _____(uL

Soil Extract Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

3/24	17
3/21	2

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	PROPENE	2.59	7.24	
4. 5				
6. 7. 8.				
0				
3		7		
5				
8				
1				
1.				
7				
o				

FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY

Case No.: SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-5

Sample wt/vol:

4.55 (g/mL) G

Lab File ID: Q2812-5A59

Level:

(low/med) LOW

Date Received: 12/04/02

% Moisture: not dec. 13

Date Analyzed: 12/10/02

GC Column: ZB624

ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Number TICs found: 0

Soil Aliquot Volume: ____(ul

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
				====
2				
3.		-		
4		-		
5				-
6				
7.				
8		_		
9.		_		
.0.		_		
- 4 •		-\		
3.		_		-
4		-		
		-		
.0.		_		
. / •		-		
.0 ,				
.9				
.0.				
1.				
22.			· · · · · · · · · · · · · · · · · · ·	
24		_		
26.		_		
7.		-		-
8.				
9.		_		
0.		_		
	**************************************	-		

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SSMW08-4

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY Case No.:

LOW

SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-6

Sample wt/vol:

5.07 (g/mL) G

Lab File ID: Q2812-6A59

% Moisture: not dec. 12

Date Received: 12/04/02 Date Analyzed: 12/10/02

Level: (low/med)

GC Column: ZB624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: ____(uL

Number TICs found: 1

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

				<u> </u>
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	2.59	12.0	
2	Cividonia	2.59	12.0	1 10
3.				-
4.				-
5.		-		
6.		-		
7.		-		
8.		- 		_
9.				
10.		-		-
1				_}
12.		-		-†
13.		-		_
4.		~ <i>-</i>		
L J •				
6				-
17.				_]
18.		-		_
.9.		~		_
20		-		-
21.				_[
22.		_		_
3		- i		
4.		-		_
.5	-	-		_
6		-		_
7.		_		_
8.	-	-		_
9		-		_
io.		-		_
·		- i		_
····		_		1

FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SSMW10-0

	Lab	Name:	COMPUCHEM
--	-----	-------	-----------

Contract: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-11

Sample wt/vol:

3.24 (g/mL) G

Lab File ID:

Q2812-11A59

Level:

(low/med) LOW

Date Received: 12/04/02

% Moisture: not dec. 11

Date Analyzed: 12/10/02

GC Column: ZB624

ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: ____(uL

Number TICs found: 1

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg 3/2/3

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.		
1. 110-62-3	PENTANAL	9.61	19.34		2.
2. 3.				<u> </u>	1
4.					1
5.					1
6.					
7.					
8 . 9 .					
10.	-				
11.					
12.		ļ ₃			
13.		[· · · ·	
14.				ļ 	1
15.			` 		
16.					1
1/.				<u> </u>	
18.					
19.					
20.					1
22.					l
23.					ł
24.					1
25		·			Ì
26.				l ————————————————————————————————————	
27.					
28.					
29.					
30.					i
-				- 	1

FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SSMW10-4

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

4.86 (g/mL) G

Lab Sample ID: Q2812-12

Q2812-12RA59

Sample wt/vol:

LOW

Level:

(low/med)

Date Received: 12/04/02

Lab File ID:

% Moisture: not dec. 13

Date Analyzed: 12/11/02

GC Column: ZB624

ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Aliquot Volume: _____(uL

Soil Extract Volume: (uL)

Number TICs found: 10

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	BRANCHED ALKANE	15.58	16.58	J J
2.	BRANCHED ALKANE	16.03	22.61	
3.	UNKNOWN	16.22	14.02	lă l
4.	UNKNOWN	16.36	21.37	J
5.	UNKNOWN	16.51	15.83	J
6.	BRANCHED ALKANE	16.93	21.56	J
7.	UNKNOWN	17.41	15.62	J
8.	UNKNOWN	17.54	27.49	lj l
9.	UNKNOWN	17.68	14.83	J,
10.	UNKNOWN	17.75	19.37	J V
11				•
12.		A		
13.				
14.				
15.				
ΤΟ.				
±				
20.				
		·		
26.				
28.				
29.				
30.				

FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SSMW10D-4

Lab	Name:	COMPUCHEM	Contract:	8260B
-----	-------	-----------	-----------	-------

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: Q2812

Matrix: (soil/water) SOIL Lab Sample ID: Q2812-13

Sample wt/vol: 4.48 (g/mL) G Lab File ID: Q2812-13RA59

Level: (low/med) LOW Date Received: 12/04/02

% Moisture: not dec. 15 Date Analyzed: 12/11/02

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: _____(uI

CONCENTRATION UNITS:

Number TICs found: 10 (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND MAKE	ъ.	TOW GOVE		1
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
1.	BRANCHED ALKANE	15.58	i	_===== T	7
2.	UNKNOWN	16.03			٦
3.	UNKNOWN	16.23			11
4.	UNKNOWN	16.23			
5.	BRANCHED ALKANE	16.36			1 1
6.	BRANCHED ALKANE	16.93			
7.	UNKNOWN	17.08			
8.	UNKNOWN	17.42			
9.	CYCLIC ALKANE	17.54			
10.	UNKNOWN	17.99			
11.	31112131111	17.55	J1.1/	١	4
1 12.	3				(
1					1.1
1 44.					3/21,
					
1 10.					
1 10.	{				
1					
1 20.					
. 41.					
44.					
1 43.					
1 24.					
1 2 2 -					1
1 20.					
29.					
30					

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-7

Lab File ID: 02812-7RA59

Sample wt/vol: 4.02 (g/mL) G

Level: (low/med) LOW

Date Received: 12/04/02

% Moisture: not dec. 4

18. 19. 20. 21. 22. 23. 24. 25. 26.

28. 29.

Date Analyzed: 12/11/02

GC Column: ZB624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Aliquot Volume: (uL

Soil Extract Volume: ____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

Number TICs found: 0

, 	****** · · · · · · · · · · · · · · · ·			
CAS NUMBER	COMPOUND NAME	RT	EST. COŃC.	Q
1.				=====
2				
3				
4				-
5				
6				·
8:				
9				
10.				
11.				-
12				-
13.				
14				
15. 16.				
1 10.				l

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-8

Sample wt/vol:

4.66 (g/mL) G

Lab File ID:

Q2812-8RA59

Level:

(low/med)

Date Received: 12/04/02

LOW

Date Analyzed: 12/11/02

GC Column: ZB624

ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: ____(uL

Number TICs found: 0

% Moisture: not dec. 15

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	
1				
2				
3.		·····		
4.				
5				
.				
7.				
V •				
9.				
10.		·		
11.				
12.		ķ 		
10.				
10.				
1J.				
20.				
25.				
26.				
21.				
28.				
29.				
30.				

FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SSMW11D-1

CLIENT SAMPLE NO.

Contract: 8260B

Lab Code: LIBRTY

Case No.:

3

SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-9

Sample wt/vol:

4.05 (g/mL) G

Lab File ID:

Q2812-9RA59

Level: (low/med) LOW

Date Received: 12/04/02

% Moisture: not dec.

Number TICs found: 0

Date Analyzed: 12/11/02

GC Column: ZB624

ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: ____(ul

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17.				
3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15.	-			
4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15.	-			
5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15.	-			
6. 7. 8. 9. 10. 11. 12. 13. 14. 15.	-			
7. 8. 9. 10. 11. 12. 13. 14.	-			
7. 8. 9. 10. 11. 12. 13. 14.	-			
9. 10. 11. 12. 13. 14. 15.	-			
9. 10. 11. 12. 13. 14. 15.	-			
12. 13. 14. 15.	·			
12. 13. 14. 15.	•			
13. 14. 15.				
14. 15.		· · · · · · · · · · · · · · · · · · ·		
15.				
16.				
ro.				
18.				
19.	· · · · · · · · · · · · · · · · · · ·			ļ
20.				
22.				ļ
23.				
24.			·	<u> </u>
25.				
26.				
27.				l
28.				
49.				
30				

FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

			-	SSMW11D-4
Lab 1	Name:	COMPUCHEM	Contract: 8260B	

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: Q2812

Matrix: (soil/water) SOIL Lab Sample ID: Q2812-10

Sample wt/vol: 4.96 (g/mL) G Lab File ID: Q2812-10A59

Level: (low/med) LOW Date Received: 12/04/02

% Moisture: not dec. 14 Date Analyzed: 12/10/02

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL

CONCENTRATION UNITS:
Number TICs found: 2 (ug/L or ug/Kg) ug/Kg

g/Kg) ug/Kg g/14/

				T
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1	LABORATORY ARTIFACT	13.51	16.91	J
2	LABORATORY ARTIFACT	14.90	13.92	ľ
3				
4.				-
5				
ο.				
, •				
O .				
J.				
.				
* •				
4 -				
J •				
7.				
J •				
D -				
/·				
7.				
<i>3</i> •				
.				
1.				
4.		_		
J.				
4.				
J.]
.				l
J.				
0		1		

FORM I VOA-TIC

CLIENT SAMPLE NO.

SSMW11D-4RE

T . 1. 3T.					
	TENTAT	IVELY	IDENTIFIED	COMPO	UNDS
	VOLATILE O				

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY\ Case No.: SAS No.: SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-10

Sample wt/vol:

4.66 (g/mL) G Lab File ID: Q2812-10RA59

Level: (low/med)

Date Received: 12/04/9/2

% Moisture: not dec. 14

Date Analyzed: 12/1/02

GC Column: ZB624

29._ 30. ID 10.32 (mm) Dilution Factor 1.0

Soil Extract Volume: _____(uL)

Soil Aliquot Volume: ____(uL

Number TICs found: 0

/LOM

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg CAS NUMBER COMPOUND NAME EST. CONC. ------------10. 11. 12. 13. 18._ 19._ 20._ 21._ 22. 23._ 24._ ²5._ 26._ 27. 28._

FORM I VOA-TIC

68

CLIENT SAMPLE NO.

SS-MW09-0

Lab Name: COMPUCHEM Method: 8270C

GPC Cleanup: (Y/N) N pH: ___

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: Q2812

Matrix: (soil/water) SOIL Lab Sample ID: Q2812-14

Sample wt/vol: 15.0 (g/mL) G Lab File ID: Q2812-14A64

Level: (low/med) LOW Date Received: 12/11/02

% Moisture: 8 decanted: (Y/N) N Date Extracted:12/11/02

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/18/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

injection volume. 1.0 (db) Dilution Factor:

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG O

CAS NO.	COMPOUND (ug/1	or ug/Kg)	UG/KG	Q
100-52-7	Benzaldehyde		360	U
108-95-2	Phenol		360	Ŭ
111-44-4	Bis(2-chloroethyl)ethe	r	360	Ιŭ
95-57-8	2-Chlorophenol		360	Ū
95-48-7	2-Methylphenol		360	Ü
108-60-1	2.2'-oxybis(1-Chloropr	copane)	360	ΙŬ
98-86-2	Acetophenone		360	Ŭ
106-44-5	4-Methylphenol		360	Ü
621-64-7	N-Nitroso-di-N-propyla	mine	360	Ü
67-72-1	Hexachloroethane		360	Ŭ
98-95-3	Nitrobenzene		360	Ü
78-59-1	Isophorone		360	υ
88-75-5	2-Nitrophenol		360	Ü
105-67-9	2.4-Dimethylphenol		360	Ü
111-91-1	Bis(2-chloroethoxy) met	hane	360	υ
120-83-2	2.4-Dichlorophenol	-	360	Ü
91-20-3	Naphthalene		360	υ
106-47-8	4-Chloroaniline		360	ΰ
87-68-3	Hexachlorobutadiene		360	υ
105-60-2	Caprolactam		360	υ
59-50-7	4-Chloro-3-methylpheno	,		1
91-57-6	2-Methylnaphthalene	<u>'</u>	360 360	Ü
77-47-4	Hexachlorocyclopentadi	ene		Ü
88-06-2	2,4,6-Trichlorophenol		360	U
95-95-4	2,4,5-Trichlorophenol		360	Ū
92-52-4	1,1'-Biphenyl		360	Ü
91-58-7	2-Chloronaphthalene	·	360	ū
88-74-4	2-Nitroaniline		360	Ū
131-11-3	Dimethylphthalate		720	[<u>ה</u>
606-20-2	2,6-Dinitrotoluene		360	Ü
208-96-8	Acenaphthylene		360	U
99-09-2	3-Nitroaniline		360	U
83-32-9	Acenaphthene		720	U
55 52-9	Acenaphene		360	U
	FORM I SV			l

CLIENT SAMPLE NO.

SS-MW09-0

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-14

Sample wt/vol: 15.0 (g/mL) G Lab File ID: Q2812-14A64

CONCENTRATION UNITS:

Level: (low/med) LOW

Date Received: 12/11/02

% Moisture: 8 decanted: (Y/N) N Date Extracted:12/11/02

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/18/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND (ug/L or ug/K	(g) UG/KG	Q	
100-02-7 121-14-2 132-64-9 84-66-2 7005-72-3 86-73-7 100-01-6 534-52-1 86-30-6 101-55-3 118-74-1 1912-24-9 87-86-5 85-01-8 120-12-7 86-74-8 206-44-0 129-00-0 85-68-7 91-94-1 117-81-7 117-84-0 205-99-2 207-08-9 50-32-8 191-24-2	PentachlorophenolPhenanthreneAnthraceneCarbazoleDi-n-butylphthalateFluoranthenePyreneButylbenzylphthalate3,3'-Dichlorobenzidinebis(2-ethylhexyl)Phthalate	1800 720 360 360 360 360 360 360 360 360 360 36		3/25/2

FORM I SV

Lab Name: COMPUCHEM Method: 8270C SS-MW09-1

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-15

Sample wt/vol:

15.0 (g/mL) G

Lab File ID: Q2812-15A64

Level: (low/med) LOW

Date Received: 12/11/02

% Moisture: 7 decanted: (Y/N) N

Date Extracted:12/11/02

Concentrated Extract Volume: 500(uL)

Date Analyzed: 12/18/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRA (ug/L or	ATION U ug/Kg)	NITS: UG/KG	Q
100-52-7	Benzaldehyde			350	U
108-95-2	Phenol			350	ן ט
TTT-44-4	Bis(2-chloroet	hyl)ether		350	ן ט
95-5/-8	2-Chlorophenol			350	U
100 60 1	2-Methylphenol			350	U
100-00-1	2,2'-oxybis(1-	Chioropropai	ne)	350	U
70-00-Z	Acetophenone			350	U
100-44-5	4-Methylphenol			350	ע
67 72 1	N-Nitroso-di-N	-propylamine	≘	350	U
00 05 2	Hexachloroetha	.ne		350	U
70 50 1	Nitropenzene_			350	ן טן
70-33-1	Isophorone			350	U
105 (7.0	2-Nitrophenol			350	ע
111 01 1	2,4-Dimethylph	enol		350	U
120 02 2	Bis(2-chloroet	hoxy) methane	3	350	ן ט
120-03-2	2,4-Dichloroph	enol		350	U
100 47 0	Naphthalene			350	U
106-4/-8	4-Chloroanilin	e		350	U
105 60 2	Hexachlorobuta	diene		350	ע
102-00-7	Caprolactam_			350	U
01 57 6	4-Chloro-3-met	hylphenol		350	U
71-5/-6	2-Methylnaphth	alene		350	ן טן
7/-4/-4	Hexachlorocycl	opentadiene_		350	ן ט
05 05 4	2,4,6-Trichlor	ophenol		350	ט
95-95-4	2,4,5-Trichlor	ophenol		350	ן ט
92-52-4	1,1'-Biphenyl_			350	ן ט
91-58-/	2-Chloronaphth	alene		350	ן ט
33- /4-4	2-Nitroaniline			710	lu l
131-11-3	Dimethylphthal	ate		350	ן טן
200-20-2	2,6-Dinitrotol	uene		350	Ū
ZUØ-96-8	Acenaphthylene			350	ט
77-UY-Z	3-Nitroaniline			710	ו עו
03-32-9	Acenaphthene			350	ען ען
					
	FÖRM I	SV			' 82'.

CLIENT SAMPLE NO.

SS-MW09-1

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-15

Sample wt/vol: 15.0 (g/mL) G Lab File ID: Q2812-15A64

Level: (low/med) LOW

Date Received: 12/11/02

% Moisture: 7 decanted: (Y/N) N Date Extracted:12/11/02

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/18/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

CONCENTRATION UNITS:

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q	
100-02-7 121-14-2 132-64-9 84-66-2 7005-72-3 86-73-7 100-01-6 534-52-1 86-30-6 101-55-3 118-74-1 1912-24-9 85-01-8 120-12-7 86-74-8 206-44-0 129-00-0 85-68-7 91-94-1 117-81-7 117-81-7 205-99-2 207-08-9 207-08-9 193-39-5 191-24-2	Butylbenzylphtl 3,3'-Dichlorobe bis(2-ethylhexy Benzo(a)anthrae	te -phenylether methylphenol nylamine (1) phenylether ene nol alate halate enzidine yl) Phthalate cene alate nthene nthene chracene cylene	1800 710 350 350 350 350 350 350 350 350 350 35		3/25/
~~	FORM I	SV		82	270C

SS-MW09-4

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-16

Sample wt/vol: 15.0 (g/mL) G

Lab File ID: Q2812-16A64

Level: (low/med) LOW

Date Received: 12/11/02

% Moisture: 9 decanted: (Y/N) N Date Extracted:12/11/02

Concentrated Extract Volume: 500(uL) Date Analyzed: 12/18/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTR (ug/L or			Q
100-52-7	Benzaldehyde			360	U
108-95-2	Phenol			360	ן ט
111-44-4	Bis(2-chloroet	hyl)ether		360	U
95-57 - 8	2-Chlorophenol			360	U
95-48-7	2-Methylphenol			360	U
108-60-1	2,2'-oxybis(1-0	Chloropropa	ne)	360	lu l
98-86-2 	Acetophenone			360	U
106-44-5	4-Methylphenol			360	Ū
621-64-7	N-Nitroso-di-N	-propylamin	.e	360	U
67-72-1	Hexachloroethai	ne		360	ן ט
98-95 - 3 -	Nitrobenzene			360	U
78-59-1	Isophorone			360	lu l
88-75-5 -	2-Nitrophenol			360	U
105-67-9	2,4-Dimethylphe	enol		360	ט
111-91-1	Bis(2-chloroet)	noxy met han	e	360	ΙŪ
120~83-2	2,4-Dichlorophe	enol		360	lυ l
91-20-3	Naphthalene			360	Ŭ
106-47-8	4-Chloroaniline	3		360	ا تا
87-68-3	Hexachlorobutac	diene		360	ا تا
105-60-2	Caprolactam			360	Ŭ
59-50-7	4-Chloro-3-met	nvlphenol		360	ΙŬ
91-57-6	2-Methylnaphtha	alene		360	lŭ l
//-4/-4	Hexachlorocyclo	nentadiene		360	lŭ l
88-06-2	2,4,6-Trichlord	ophenol		360	lŭ l
95-95 - 4 -	2.4 5-Trichlord	phenol		360	lŭ l
92-52-4	1,1'-Biphenvl			360	ا تا
91-58-7	2-Chloronaphtha	alene		360	lŭ l
88-74-4	2-Nitroaniline			730	ا تا
131-11-3	Dimethylphthala	ate		360	ט
606-20 - 2	2,6-Dinitrotolı	iene		360	Ü
208-96-8	Acenaphthylene		—	360	Ü
99-09-2	3-Nitroaniline			730	ם
83-32-9	Acenaphthene			360	lu l
	•			200	
	FORM I	SV			82

CLIENT SAMPLE NO.

SS-MW09-4

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-16

Sample wt/vol: 15.0 (g/mL) G

Lab File ID: Q2812-16A64

Level: (low/med)

LOW

Date Received: 12/11/02

% Moisture: 9

decanted: (Y/N) N

Date Extracted:12/11/02

Concentrated Extract Volume: 500(uL)

Date Analyzed: 12/18/02

Injection Volume: 1.0(uL)

191-24-2----Benzo(g,h,i)perylene

(1) - Cannot be separated from Diphenylamine

FORM I SV

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: ___

CAS NO.
51-28-5 100-02-7 121-14-2 132-64-9 84-66-2 7005-72-3 86-73-7 100-01-6 534-52-1 534-52-1 101-55-3 118-74-1 1912-24-9 87-86-5 85-01-8-7 85-01-8-7 129-00-0 86-74-8 206-44-0 129-00-0 129-00-0 17-81-7 17-81-7 218-01-9 17-84-0 205-99-2 207-08-9 50-32-8 193-39-5

8270C

360

U

SSMW07-0

Lab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: Q2812

Matrix: (soil/water) SOIL Lab Sample ID: Q2812-1

Sample wt/vol: 30.0 (q/mL) GLab File ID: 02812-1A64

Level: (low/med) LOW Date Received: 12/04/02

% Moisture: 5 decanted: (Y/N) N Date Extracted:12/04/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/10/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q 100-52-7**----**-Benzaldehyde 350 U 108-95-2-----Phenol 350 U 111-44-4-----Bis(2-chloroethyl)ether 350 U 95-57-8----2-Chlorophenol 350 U 95-48-7----2-Methylphenol 350 U 108-60-1----2,2'-oxybis(1-Chloropropane) 350 U 98-86-2-----Acetophenone 350 U 106-44-5-----4-Methylphenol 350 U 621-64-7-----N-Nitroso-di-N-propylamine 350 U 67-72-1-----Hexachloroethane 350 U 98-95-3-----Nitrobenzene 350 U 78-59-1-----Isophorone 350 U 88-75-5-----2-Nitrophenol 350 U 105-67-9-----2,4-Dimethylphenol 350 U 111-91-1-----Bis(2-chloroethoxy) methane 350 U 120-83-2----2,4-Dichloropheno1 350 U 91-20-3-----Naphthalene 350 U 106-47-8----4-Chloroaniline 350 U 87-68-3----Hexachlorobutadiene 350 U 350 U 350 U 350 IJ 350 U 350 U 350 U 350 U 350 U 88-74-4-----2-Nitroaniline 690 U 131-11-3-----Dimethylphthalate 350 U 606-20-2----2,6-Dinitrotoluene____ 350 U 208-96-8-----Acenaphthylene 99-09-2----3-Nitroaniline 350 U U 690 83-32-9-----Acenaphthene 350 IJ

FORM I SV

CONCENTRATION UNITS:

22

CLIENT SAMPLE NO.

SSMW07-0

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-1

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

Q2812-1A64

Level: (low/med) LOW

Date Received: 12/04/02

% Moisture: 5 decanted: (Y/N) N

Date Extracted:12/04/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/10/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

CONCENTRATION UNITS:

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	(ug/L or ug/Kg)		Q	
100-02-7 121-14-2 132-64-9 84-66-2 7005-72-3 86-73-7 100-01-6 534-52-1 86-30-6 101-55-3 118-74-1 1912-24-9 87-86-5 85-01-8 120-12-7 86-74-8 120-12-7 86-74-8 129-00-0 85-68-7 91-94-1 117-81-7 56-55-3 218-01-9 117-84-0 205-99-2 207-08-9 50-32-8 193-39-5 191-24-2	4-Nitroaniline4,6-Dinitro-2-m4,6-Dinitro-2-mN-Nitrosodiphen4-Bromophenyl-pHexachlorobenzerAtrazinePentachlorophenePhenanthreneCarbazoleDi-n-butylphthaFluoranthenePyreneButylbenzylphtha3,3'-Dichloroberbis(2-ethylhexylene)Benzo(a) anthraceChryseneDi-n-octylphthaBenzo(b) fluorantBenzo(b) fluorantBenzo(a) pyreneIndeno(1,2,3-cd)Dibenzo(a,h) anthraceDibenzo(a,h) anthraceBenzo(g,h,i) pery	ene ephenylether ethylphenol ylamine (1) henylether ne ol late alate nzidine l) Phthalate ene late thene thene ryrene nracene ylene nenylamine	1700 690 350 350 350 350 350 350 350 350 350 35		3236
	FORM I S	SV		1	3270C

2**3**

SSMW07-1

Lab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 02812

Matrix: (soil/water) SOIL Lab Sample ID: Q2812-2

Sample wt/vol: 30.0 (g/mL) G Lab File ID: Q2812-2A64

Level: (low/med) LOW Date Received: 12/04/02

% Moisture: 8 decanted: (Y/N) N Date Extracted:12/04/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/10/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG

Q 100-52-7----Benzaldehyde 360 U 108-95-2----Phenol 360 U 111-44-4-----Bis(2-chloroethyl)ether 360 U 95-57-8-----2-Chlorophenol 95-48-7----2-Methylphenol 360 U 360 U 108-60-1----2,2'-oxybis(1-Chloropropane) 360 U 360 U 360 U 621-64-7----N-Nitroso-di-N-propylamine 360 U 67-72-1------Hexachloroethane 360 U 98-95-3-----Nitrobenzene 360 U 78-59-1------Isophorone 88-75-5-----2-Nitrophenol 360 U 360 U 105-67-9-----2,4-Dimethylphenol 360 U 111-91-1-----Bis(2-chloroethoxy)methane 360 U 120-83-2----2,4-Dichlorophenol 360 U 91-20-3-----Naphthalene 360 U 106-47-8----4-Chloroaniline 360 U 87-68-3------Hexachlorobutadiene 360 U 105-60-2-----Caprolactam 360 U 59-50-7----4-Chloro-3-methylphenol 360 U 91-57-6-----2-Methylnaphthalene 360 U 77-47-4-----Hexachlorocyclopentadiene 360 U 88-06-2----2,4,6-Trichlorophenol_ 360 U 95-95-4-----2,4,5-Trichlorophenol 360 U 92-52-4----1,1'-Biphenyl 360 IJ 91-58-7----2-Chloronaphthalene 360 U 88-74-4-----2-Nitroaniline 720 U 131-11-3-----Dimethylphthalate 360 U 606-20-2----2,6-Dinitrotoluene 360 U 208-96-8-----Acenaphthylene 54 J 99-09-2-----3-Nitroaniline 720 U 83-32-9------Acenaphthene 360 U FORM I SV

25

<u>8</u>270C

CLIENT SAMPLE NO.

SSMW07-1

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-2

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: Q2812-2A64

Level: (low/med) LOW

Date Received: 12/04/02

% Moisture: 8

decanted: (Y/N) N Date Extracted:12/04/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/10/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

CONCENTRATION UNITS:

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	(ug/L or u	g/Kg) UG/KG	(Q
51-28-5	2,4-Dinitrophe	nol	1800	U	
100 - 02-7	4-Nitrophenol		720	Ü	
121-14-2	2,4-Dinitroto Γ	uene	360	Ŭ	
132-64-9	Dibenzofuran		7 360	Ιŭ	
84 - 66-2	Diethylphtha la	te	360	Ŭ	
7005-72-3	4-Chlorophenyl	-phenylether	360	Ŭ	
36-73-7	Fluorene	F	-\ 36	J	
100-01-6	4-Nitroaniline		720	Ü	
534-52-1	4.6-Dinitro-2-	methy phenol	720	Ŭ	
36-30-6	N-Nitrosodiphe	nvlamine (1)	360	Ŭ	
LU1-55-3- 	~-4-Bromophenvl-:	phenylether T	- 360	Ü	
118-74-1	Hexachlorobenz	ene	360	Ü	
L912 - 24-9	Atrazine		- 360	ηυ.	4
37-86 - 5	Pentachlorophe	nol	360	Ü	1
35-01-8	Phenanthrene_		96	JB	P
20-12-7- 	Anthracene	· · · · · · · · · · · · · · · · · · ·	-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	J	
36-74-8 -	Carbazole		360	บ	
84 - 74 - 2	Di-n-buty bhth	alate	- 360 360	Ü	
206 - 44 - 0	Fluoranthene		- 190	JB	В
.29-00-0 	Pvrene		440	B	B
35~68-7 	Butvlbenzyloht	nalate	360	บ็	L -
11-94-1	3.3'-Dichlorobe	enzidine	7 360	ΰ	
.17 - 81-7	bis(2-ethvlhex	vl)Phthalate	340	J	
6 - 55 - 3	Benzo(a)anthrac	cene	140	JB	B
:18-01-9	Chrvsene		170	JB	\mathcal{C}
.17-84-0	Di-n-oct vlphth	alate	- 360	Ü	1
105-99-2	- Benzo (b) fluora:	at hene	150	JB	ß
07-08-9	Benzo(k)fluora	nt hene	190	JB	1
0-32-8	Benzo(a)pyrene		- 150 160	JB	-1
.93-39-5- -	·Indeno (1, 2, 3 <i>-c</i> ō	nyrene	-	J	+
3-70-3	·Dibenzo(a.h) ant	hracene	_ 94 30	J	
91-24-2	Benzo(g,h,i)per	cvlene	- 100	J	
			-	10	
- Cannot be	separated from Dir	henvlamine	_	.	
	FORM I	SV			8

CLIENT SAMPLE NO.

SSMW07-4

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-3

Sample wt/vol:

30.0 (g/mL) G

Lab File ID: Q2812-3A64

Level: (low/med) LOW

Date Received: 12/04/02

% Moisture: 20

decanted: (Y/N) N

Date Extracted:12/04/02

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 12/10/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

CONCENTRATION INITES.

GPC Cleanup: (Y/N) N pH: ____

	COMPOUND (ug/L or ug/K		Q T
100-52-7	Benzaldehyde	410	שׁ
108-95-2	Phenol	410	ט
111-44-4	Bis(2-chloroethyl)ether	410	U
95-57-8	2-Chlorophenol	410	U
95-48-7	2-Methylphenol	410	Ŭ
108-60-1	2,2'-oxybis(1-Chloropropane)	410	U
98-86-2	Acetophenone	410	U
106-44-5 	4-Methylphenol_	410	ט
621-64-7	N-Nitroso-di-N-propylamine	410	U
67-72-1 <i></i>	Hexachloroethane	410	U
98 - 95-3	Nitrobenzene	410	U
78-59-1	Isophorone_	410	U
88 - 75-5	2-Nitrophenol	410	U
105 - 67-9	2,4-Dimethylphenol	410	U
111-91-1	Bis(2-chloroethoxy)methane	410	U
120-83-2	2,4-Dichlorophenol	410	U
91-20 - 3 -	Naphthalene	410	U
106-47-8	4-Chloroaniline	410	Ū
87-68 - 3 -	Hexachlorobutadiene	410	U
105-60-2	Caprolactam	410	ΙŪ
59-50 - 7	4-Chloro-3-methylphenol	410	Ū
91-57-6	2-Methylnaphthalene	410	Ū
//-47-4 -	Hexachlorocyclopentadiene	410	Ū
38-06-2	2,4,6-Trichlorophenol	410	Ū
95 - 95-4 -	2,4,5-Trichlorophenol	410	Ŭ
92-52 - 4	1,1'-Biphenvl	410	Ü
91-58-7	2-Chloronaphthalene	410	Ū
38-74-4 	2-Nitroaniline	830	Ū
131-11-3	Dimethylphthalate	410	Ŭ
506-20-2	2,6-Dinitrotoluene	410	υ
208-96 - 8	Acenaphthylene	410	lü
99-09-2- -	3-Nitroaniline	830	Ü
33 - 32 - 9 	Acenaphthene	410	lΰ

CLIENT SAMPLE NO.

SSMW07-4

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-3

Sample wt/vol: 30.0 (g/mL) G Lab File ID: Q2812-3A64

Level: (low/med) LOW

Date Received: 12/04/02

CONCENTRATION UNITS:

% Moisture: 20 decanted: (Y/N) N Date Extracted:12/04/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/10/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION (ug/L or ug/Kg		Q
51-28-5	2,4-Dinitropheno	0.1	2100	U
100-02-7	4-Nitrophenol		830	lŭ l
121-14-2	2,4-Dinitrotolue	ene	410	Ŭ
132-64-9	Dibenzofuran		410	lŭ l
84-66-2	Diethylphthalate	3	410	lŭ l
7005-72-3	4-Chlorophenyl-	chenylether	410	lŭ l
86-73-7	Fluorene	-	410	Ū
100-01-6	4-Nitroaniline		830	lŭ l
534-52-1	4,6-Dinitro-2-me	ethylphenol	830	Ū
86-30-6 -	N-Nitrosodiphen	zlamine (1)	410	ט
101-55-3	4-Bromophenvl-pl	nenvlether	410	Ū
118-74-1	Hexachlorobenzer	ne	410	Ū
1912-24-9	Atrazine		410	UR
87-86-5	Pentachloropheno	ol	410	Ŭ
85-01-8	Phenanthrene		410	Ū
120-12-7	Anthracene		410	υ
86-74-8	Carbazole		410	lū l
84 - 74 - 2	Di-n-butylphtha	ate	410	ט
206-44-0	Fluoranthene		410	U
129-00-0	Pvrene		410	ן עו
85-68-7 -	Butylbenzylphtha	alate	410	Ū
91-94-1	3,3′-Dichlorober	zidine	410	ΙŬ Ι
117-81-7	bis(2-ethylhexy))Phthalate	320	J
56-55 - 3	Benzo(a)anthrace	ene	410	Ū
218-01-9	Chrysene		410	Ū
117-84-0	Di-n-octylphthal	ate	42	J
205-99-2	Benzo(b)fluorant	hene	410	U I
207-08-9	Benzo(k)fluorant	hene	410	lŭ l
50-32-8 	Benzo(a)pyrene		410	Ū
193-39-5- 	Indeno(1,2,3-cd)	pyrene	410	Ū l
53-70-3 -	Dibenzo(a.h)antł	racene	410	ן מ
191-24-2	Benzo(g,h,i)pery	lene	410	Ū
- Cannot be	separated from Diph			ll
	FORM I S			82

29

SSMW08-0

Lab Name: COMPUCHEM Method: 8270C

Case No.: SAS No.: Lab Code: LIBRTY SDG No.: Q2812

Matrix: (soil/water) SOIL Lab Sample ID: Q2812-4

Sample wt/vol: 30.0 (g/mL) GLab File ID: 02812-4DA64

Level: (low/med) LOW Date Received: 12/04/02

% Moisture: 6 decanted: (Y/N) N Date Extracted:12/04/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/10/02

Injection Volume: 1.0(uL) Dilution Factor: 3.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO.		g/L or ug/Kg)		Q
100-52-7	Benzaldehyde		1100	U
108-95-2	Phenol		1100	lu l
111-44-4	Bis(2-chloroethyl)e	ther	1100	ן ט
95-57-8	2-Chlorophenol		1100	ן ט
95-48-7	2-Methylphenol		1100	U
108-60-1	2,2'-oxybis(1-Chlore	opropane)	1100	ן ט
98 - 86-2	·Acetophenone		1100	ט
106-44-5	4-Methylphenol		1100	U
621-64-7	N-Nitroso-di-N-prop	ylamine	1100	ן ט
67-72-1 -	Hexachloroethane	_	1100	U
98-95-3 -	Nitrobenzene		1100	U
78-59-1	Isophorone		1100	U
88 - 75-5	2-Nitrophenol		1100	ען
105-67-9	2,4-Dimethylphenol		1100	ן טן
111-91-1	Bis(2-chloroethoxy)	methane	1100	U
120-83-2	2,4-Dichlorophenol		1100	U
91-20-3	Naphthalene		1200	1 1
106-47-8	4-Chloroaniline		1100	U
87-68-3	Hexachlorobutadiene		1100	U
105-60-2	Caprolactam		1100	ן ט
59-50-7	4-Chloro-3-methylphe	enol	1100	ן ט
91-57-6	2-Methylnaphthalene		2400	
77- 4 7-4 -	Hexachlorocyclopenta	adiene	1100	Ū
88-06-2 -	2,4,6-Trichlorophen	ol —	1100	ט ו
95-95-4	2,4,5-Trichloropheno		1100	U
92-52-4- -	1,1'-Biphenvl		470	J
91-58 - 7	2-Chloronaphthalene		1100	ט
88-74-4	2-Nitroaniline		2100	ט
131-11-3	Dimethylphthalate		1100	lū l
606-20-2	2,6-Dinitrotoluene		1100	lŭ l
208-96-8	Acenaphthylene		2200	
99-09 - 2 -	3-Nitroaniline		2100	$ \overline{U} $
83-32-9	Acenaphthene		960	lj l
	FORM I SV			82

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM

Method: 8270C

SSMW08-0

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-4

Sample wt/vol: 30.0 (g/mL) G Lab File ID: Q2812-4DA64

Level: (low/med) LOW

Date Received: 12/04/02

% Moisture: 6 decanted: (Y/N) N Date Extracted:12/04/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/10/02

Injection Volume: 1.0(uL)

Dilution Factor: 3.0

CONCENTRATION UNITS:

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND (1	ug/L or ug/Kg)	UG/KG	Q	
100-02-7 121-14-2 132-64-9 84-66-2 7005-72-3 86-73-7 100-01-6 534-52-1 86-30-6 101-55-3 118-74-1 1912-24-9 87-86-5 85-01-8 120-12-7 86-74-8 206-44-0 129-00-0 85-68-7 91-94-1 117-81-7 56-55-3 218-01-9 117-84-0 205-99-2 207-08-9 50-32-8 193-39-5 191-24-2	4-Nitroaniline4,6-Dinitro-2-methyN-Nitrosodiphenylar4-Bromophenyl-phenyHexachlorobenzenePentachlorophenolPhenanthreneCarbazoleDi-n-butylphthalateFluoranthenePyreneButylbenzylphthalate3,3'-Dichlorobenzicbis(2-ethylhexyl)PheBenzo(a)anthracene	nylether ylphenol mine (1) ylether e te dine nthalate ne cene cene	5300 2100 1100 790 1100 1100 1100 2100 2100 1100 1100 11		3/25
	FORM I SV	TAULTIE		82	70C

32

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM Method: 8270C SSMW08-1

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-5

Sample wt/vol:

30.0 (g/mL) G

Lab File ID: Q2812-5A64

Level: (low/med)

LOW

Date Received: 12/04/02

% Moisture: 13

decanted: (Y/N) N

Date Extracted:12/04/02

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 12/10/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

CONCENTRATION UNITS:

GPC Cleanup: (Y/N) N pH: ___

CAS NO.		g/L or ug/Kg		Q	
100-52-7	Benzaldehyde		380	U	_
108-95-2	Phenol		380	U	
111-44-4	Bis(2-chloroethyl)e	ther	380	Ū	- 1
95 - 57 - 8	2-Chlorophenol		380	Ū	
95-48-7	2-Methylphenol		380	Ū	
108-60-1	2,2'-oxybis(1- Chlor	opropane)	380	ט	
98-86-2	Acetophenone		380	U	
106-44-5	4-Methylphenol		380	Ū	
621-64-7	N-Nitroso-di-N-prop	ylamine	380	Ū	
67-72-1 	Hexachloroethane	_	380	U	
98-95-3	Nitrobenzene		380	Ū	ł
78-59-1	Isophorone		380	Ū	
88-75-5 	2-Nitrophenol		380	Ŭ	
105-67-9	2,4-Dimethylphenol		380	ΙŬ	-
111-91-1	~Bis(2-chloroethoxyT	methane	380	Ü	
120-83-2	2.4-Dichlorophenol		380	Ū	
91-20-3	Naphthalene		380	Ŭ	
106-47-8	4-Chloroaniline		380	Ŭ	
87-68-3	Hexachlorobutadiene		380	Ŭ	
105-60-2	·Caprolactam		380	Ŭ	ı
59-50-7 - -	4-Chloro-3-methylph	enol	380	Ŭ	
91-57-6	2-Methylnaphthalene		42	Ĵ	1
//-4/-4	Hexachlorocyclopent	adiene	380	บี	
88-06-2	2.4.6-Trichlorophen	~1 	380	Ü	
95-95-4	2.4.5-Trichlorophen	ol	380	υ	1
92-52-4	1.1'-Biphenvl		380	υ	1
91-58-7	2-Chloronaphthalene		380	บั	
88-/4-4	2-Nitroaniline		760	บี	
131-11-3	Dimethylphthalate		380	Ū	
606-20-2	2.6-Dinitrotoluana		380	บั	1
ZU8-96-8	Acenaphthylene		41	J	
99-09-2	3-Nitroaniline		760	ชี	
83-32-9	Acenaphthene		380	Ü	
	<u>-</u>		500		
	FORM I SV	I		' 8	$\frac{1}{27}$

CLIENT SAMPLE NO.

SSMW08-1

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-5

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: Q2812-5A64

Level: (low/med) LOW

Date Received: 12/04/02

% Moisture: 13 decanted: (Y/N) N Date Extracted:12/04/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/10/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup:

(Y/N) N

PH: ____

	CAS NO.	COMPOUND	CONCENTRATION (ug/L or ug/Kg)		Q	
(1	100-02-7 121-14-2 132-64-9 84-66-2 7005-72-3 86-73-7 100-01-6 534-52-1 86-30-6 101-55-3 118-74-1 1912-24-9 87-86-5 85-01-8 120-12-7 84-74-2 206-44-0 129-00-0 85-68-7 117-81-7 117-81-7 205-99-2 207-08-9 207-08-9 193-39-5 191-24-2	-2,4-Dinitrotoluer -Dibenzofuran -Diethylphthalate -4-Chlorophenyl-phe-Fluorene -4-Nitroaniline -4,6-Dinitro-2-met -N-Nitrosodiphenyl-phe-Hexachlorobenzene -Atrazine -Pentachlorophenol-phenanthrene -Anthracene -Carbazole -Di-n-butylphthala-Fluoranthene -Pyrene -Butylbenzylphthala-3,3'-Dichlorobenzene -bis(2-ethylhexyl) -Benzo(a) anthracer -Chrysene -Di-n-octylphthala-Benzo(b) fluoranth-Benzo(k) fluoranth-Benzo(k) fluoranth-Benzo(k) fluoranth-Benzo(k)	nenylether chylphenol lamine (1) enylether chylphenol lamine (2) enylether chellether	1900 760 380 380 380 380 760 760 380 380 380 380 380 380 380 180 380 110 86 82 64 32 60		3/25/2
. –		FORM I SV			82	270C

SSMW08-4

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-6

Sample wt/vol:

30.0 (g/mL) G

Lab File ID: Q2812-6A64

Level: (low/med) LOW

Date Received: 12/04/02

% Moisture: 12

decanted: (Y/N) N

Date Extracted:12/04/02

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 12/10/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: ____

CAS NO.	COMPOUND	CONCENTRA (ug/L or			Q	
100-52-7	Benzaldehyde			380	U	_
108-95-2	Phenol			380	۳	
111-44-4	Bis(2-chloroet	hvl)ether		380	Ū	
95-57-8	2-Chlorophenol			380	lΰ	
95 - 48-7 -	2-Methylphenol			380	اق	
108-60-1	2,2'-oxvbis(1-3	Chloropropar	ne)	380	Ü	
98-86-2	Acetophenone		,	380	υ	
106-44-5	4-Methylphenol			380	υ	
621-64-7	N-Nitroso-di-Ni	-propylamine	-	380	ָ ^ט	
6/-/2-1	Hexachloroethai	ne		380	ΰ	-
98 - 95-3	Nitrobenzene			380	Ü	
78-59 - 1	Isophorone			380	Ιŭ	
88-75-5 -	2-Nitrophenol			380	ΰ	1
105-67-9	2.4-Dimethylphe	enol		380	Ü	- 1
111-91-1	Bis(2-chloroet)	oxy) met hane		380	Ŭ	i
120-83-2	2.4-Dichlorophe	enol	~	380	Ŭ	
91-20-3	Naphthalene			72	J	
106-47-8	4-Chloroaniline	<u> </u>	 .	380	บ็	
87-68-3 	Hexachlorobutac	diene		380	Ü	
105-60-2~	Caprolactam			380	Ü	
59~50 - 7	4-Chloro-3-met)	lylphenol		380	ŭ	
91-57-6	2-Methylnaphtha	alene		190	J	
77-47-4	Hexachlorocycle	nentadiano		380	บี	- 1
88-06-2	2.4.6-Trichlord	nhenol		380	ŭ	
95-95 - 4	2,4,5-Trichlord	ophenol		380	บั	- 1
92-52-4	1,1'-Biphenvl			62	J	
91-58-7	2-Chloronapht ha	lene		380	ט	
88-74-4	2-Nitroaniline			750	Ü	
131-11-3	Dimethylphthala	ate		380	Ü	
606-20-2	2.6-Dinitrotoli	iene		380	שׁן	
208-96-8	Acenaphthylene			130	J	- 1
99-09-2	3-Nitroaniline			750	1 -	
83-32-9	Acenaphthene			750 54	U	
				54	U	
	FORM I	SV	!		J	- 827

CLIENT SAMPLE NO.

SSMW08-4

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-6

Sample wt/vol: 30.0 (g/mL) G Lab File ID: Q2812-6A64

Level: (low/med) LOW

Date Received: 12/04/02

% Moisture: 12 decanted: (Y/N) N Date Extracted:12/04/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/10/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

CONCENTRATION UNITS:

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q	
100-02-7 121-14-2 132-64-9 84-66-2 7005-72-3 86-73-7 100-01-6 534-52-1 86-30-6 101-55-3 118-74-1 1912-24-9 85-01-8 85-01-8 120-12-7 86-74-8 206-44-0 129-00-0 85-68-7 91-94-1 117-81-7 56-55-3 218-01-9 117-84-0 205-99-2 207-08-9 50-32-8 193-39-5 53-70-3	Butylbenzylphtha 3,3'-Dichlorober bis(2-ethylhexyl Benzo(a)anthrace	enee phenylether ethylphenol ylamine (1) henylether ne ol late late nzidine l) Phthalate ene late thene thene pyrene pracene ylene	1900 750 380 86 380 380 48 750 750 380 380 380 380 380 380 380 380 380 38	はいいにはいないのののののののののののののののののののののののののののののののの	3/25/

FORM I SV

38

CLIENT SAMPLE NO.

SSMW10-0

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-11

Sample wt/vol:

30.0 (g/mL) G

Lab File ID: Q2812-11A64

Level: (low/med) LOW

Date Received: 12/04/02

% Moisture: 11 decanted: (Y/N) N

Date Extracted:12/04/02

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 12/10/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.		ONCENTRATION UNITS: ug/L or ug/Kg) UG/KG	
100-52-7	Benzaldehyde	370	U
108-95-2	Phenol	370	U
111-44-4	Bis(2-chloroethyl)ether	370	ט
95-57-8- -	2-Chlorophenol	370	ט ו
95-48- 7	2-Methylphenol	370	Ü
108-60-1	2,2'-oxybis(1-Chloropropage)	370	U
98-86-2	Acetophenone	370	ן מן
106-44-5	4-Methylphenol	370	ן ט
621-64-7	N-Nitroso-di-N-propylamine	370	lu l
67-72-1	Hexachloroethane	370	U
98-95-3	Nitrobenzene	370	l u l
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	ט
105-67-9	2.4-Dimethylphenol	370	lŭ l
111-91-1	Bis(2-chloroethoxy)methane	370	lŭ l
120 - 83-2	2,4-Dichlorophenol — [370	Ŭ
91-20-3	Naphthalene	370	Ιΰ
106-47-8	4-Chloroaniline	370	lŭ l
87-68-3	Hexachlorobutadiene	370	ן ע
105-60-2	Caprolactam	370	lŭ l
59 - 50-7	4-Chloro-3-methylphenol	370	Ü
9 1 -57 - 6 -	2-Methylnaphthalene	370	lŭ l
77-47-4	Hexachlorocyclopentadiene	370	บั
88-06-2	2,4,6-Trichlorophenol	370	Ŭ
95-95 - 4 -	2,4,5-Trichlorophenol	370	Ŭ
92-52-4	1,1'-Biphenvl	370	lŭ l
91-58-7	2-Chloronaphthalene	370	lŭ l
88-74-4	2-Nitroaniline	740	Ü
131-11-3	Dimethylphthalate	370	υ
606-20-2	2,6-Dinitrotoluene	370	Ü
208-96-8 -	Acenaphthylene	370 370	Ŭ
99-09-2- -	3-Nitroaniline	740	l ₀
83-32-9	Acenaphthene	370	Ü
	•	370	
	FORM I SV		827

CLIENT SAMPLE NO.

SSMW10-0

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY

Case No.: SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-11

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

Q2812-11A64

Level:

(low/med)

Date Received: 12/04/02

LOW

CONCENTRATION UNITS:

% Moisture: 11

decanted: (Y/N) N

Date Extracted:12/04/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/10/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup:

(Y/N) N

pH: ____

CAS NO.		ug/L or ug/Kg)		Q	
100-02-7 121-14-2 132-64-9 84-66-2 7005-72-3 86-73-7 100-01-6 534-52-1 86-30-6 101-55-3 118-74-1 1912-24-9 85-01-8 120-12-7 86-74-8 120-12-7 84-74-2 206-44-0 129-00-0 85-68-7 91-94-1 117-81-7 56-55-3 218-01-9 117-84-0 205-99-2 207-08-9 50-32-8 193-39-5 191-24-2	Butylbenzylphthalat 3,3'-Dichlorobenzio bis(2-ethylhexyl)Pl Benzo(a)anthracene	nylether	1900 740 370 370 370 370 370 370 370 370 370 37		3/25/2
	FORM I SV	y i a mine		82	70C

41

CLIENT SAMPLE NO.

SSMW10-4

0

SDG No.: Q2812

Lab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.:

T-1- G----1 - TD - 00000 40

Matrix: (soil/water) SOIL Lab Sample ID: Q2812-12

Sample wt/vol: 30.0 (g/mL) G Lab File ID: Q2812-12JB64

Level: (low/med) LOW Date Received: 12/04/02

% Moisture: 13 decanted: (Y/N) N Date Extracted:12/04/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/11/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO. COMPOUND CONCENTRATION UNITS:

(uq/L or uq/Kq) UG/KG

100-52-7----Benzaldehyde 380 U 108-95-2----Phenol 380 U 111-44-4-----Bis(2-chloroethyl)ether 380 U 95-57-8-----2-Chlorophenol_ 380 U 95-48-7----2-Methylphenol 380 U 108-60-1----2,2'-oxybis(1-Chloropropane) 380 U 98-86-2-----Acetophenone 380 U 106-44-5-----4-MethylphenoI380 U 621-64-7----N-Nitroso-di-N-propylamine 380 U 67-72-1-----Hexachloroethane 380 U 98-95-3-----Nitrobenzene_ 380 U 78-59-1-----Isophorone 380 U 88-75-5----2-Nitrophenol 380 U 105-67-9-----2,4-Dimethylphenol 380 U 111-91-1-----Bis(2-chloroethoxy) methane 380 U 120-83-2----2,4-Dichlorophenol 380 U 91-20-3-----Naphthalene 380 U 106-47-8----4-Chloroaniline 380 U 87-68-3-----Hexachlorobutadiene 380 U 105-60-2-----Caprolactam 380 U 59-50-7----4-Chloro-3-methylphenol 380 U 91-57-6----2-Methylnaphthalene 380 U 77-47-4-----Hexachlorocyclopentadiene 380 U 88-06-2----2,4,6-Trichlorophenol 380 U 95-95-4-----2,4,5-Trichlorophenol_ 92-52-4-----1,1'-Biphenyl_ 380 U 380 U 91-58-7-----2-Chloronaphthalene 380 U 88-74-4----2-Nitroaniline 760 U 131-11-3-----Dimethylphthalate 380 U 606-20-2----2,6-Dinitrotoluene___ 380 U 208-96-8-----Acenaphthylene_ 380 U 99-09-2----3-Nitroaniline 760 П 83-32-9-----Acenaphthene 380 IJ FORM I SV <u>8</u>270C

CLIENT SAMPLE NO.

SSMW10D-4

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY

Case No.: SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-13

Sample wt/vol:

30.0 (g/mL) G

Lab File ID: Q2812-13JA64

Level: (low/med) LOW

Date Received: 12/04/02

% Moisture: 15

decanted: (Y/N) N

Date Extracted: 12/04/02

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 12/11/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

CAS NO.	COMPOUND	CONCENTRATION U. (ug/L or ug/Kg)		Q
100-52-7 108-95-2 111-44-4 95-57-8 95-48-7 108-60-1 98-86-2 106-44-5 621-64-7 98-95-3 78-59-1 120-83-2 111-91-1 120-83-2 91-20-3 106-47-8 91-57-6 91-57-6 77-47-4	Benzaldehyde	(ug/L or ug/Kg) 1) ether loropropane) ropylamine ol xy) methane ol ene lphenol ene entadiene		חחחחחחחחחחחחחחחחחחחחחחחחחחחחחחחחחחחחחח
95-95-4 92-52-4 91-58-7 88-74-4 131-11-3 606-20-2 208-96-8 99-09-2	2,4,5-Trichloropy1,1'-Biphenyl2-Chloronaphthale2-NitroanilineDimethylphthalate2,6-DinitrotoluerAcenaphthylene3-NitroanilineAcenaphthene	henolene	390 390 390 780 390 390 390 780 390	ם ם ם ם ם ם ם ם ם ם ם ם ם ם ם ם ם ם ם

CLIENT SAMPLE NO.

SSMW10-4

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-12

Sample wt/vol:

30.0 (q/mL) G

Lab File ID: 02812-12JB64

Level:

(low/med)

LOW

Date Received: 12/04/02

% Moisture: 13

decanted: (Y/N) N

Date Extracted:12/04/02

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 12/11/02

Injection Volume: 1.0(uL)

CAS NO.

COMPOUND

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: ____

3/10/27 CONCENTRATION UNITS: (ug/I or ug/Kg) UG/KG

51-28-52,4-Dinitrophenol 100-02-74-Nitrophenol 121-14-22,4-Dinitrotoluene 132-64-9Dibenzofuran 84-66-2Diethylphthalate 7005-72-34-Chlorophenyl-phenylether 86-73-7Fluorene 100-01-64-Nitroaniline 534-52-14,6-Dinitro-2-methylphenol 86-30-6N-Nitrosodiphenylamine (1) 101-55-34-Bromophenyl-phenylether 118-74-1Hexachlorobenzene 1912-24-9Atrazine 87-86-5Pentachlorophenol 85-01-8	1900 760 380 380 380 380 760 760 380	ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט
121-14-22,4-Dinitrotoluene 132-64-9Dibenzofuran 84-66-2Diethylphthalate 7005-72-34-Chlorophenyl-phenylether 86-73-7Fluorene 100-01-64-Nitroaniline 534-52-14,6-Dinitro-2-methylphenol 86-30-6N-Nitrosodiphenylamine (1) 101-55-34-Bromophenyl-phenylether 118-74-1Hexachlorobenzene 1912-24-9Atrazine 87-86-5	380 380 380 380 380 760 760 380	บ บ บ
132-64-9	380 380 380 380 760 760 380	U U U
84-66-2	380 380 380 760 760 380	n n
7005-72-34-Chlorophenyl-phenylether 86-73-7Fluorene 100-01-64-Nitroaniline 534-52-14,6-Dinitro-2-methylphenol 86-30-6N-Nitrosodiphenylamine (1) 101-55-34-Bromophenyl-phenylether 118-74-1Hexachlorobenzene 1912-24-9Atrazine 87-86-5	380 380 760 760 380	U U
86-73-7	380 760 760 380	U
100-01-64-Nitroaniline 534-52-14,6-Dinitro-2-methylphenol 86-30-6N-Nitrosodiphenylamine (1) 101-55-34-Bromophenyl-phenylether 118-74-1Hexachlorobenzene 1912-24-9Atrazine 87-86-5	760 760 380	
534-52-14,6-Dinitro-2-methylphenol 86-30-6N-Nitrosodiphenylamine (1) 101-55-34-Bromophenyl-phenylether 118-74-1Hexachlorobenzene 1912-24-9Atrazine 87-86-5	760 380	10
86-30-6N-Nitrosodiphenylamine (1) 101-55-34-Bromophenyl-phenylether 118-74-1	380	1
101-55-34-Bromophenyl-phenylether 118-74-1Hexachlorobenzene 1912-24-9Atrazine 87-86-5		U
118-74-1		U
1912-24-9Atrazine 87-86-5Pentachlorophenol	380	U
87-86-5Pentachlorophenol	380	U
PE 01 0	380	n 6
00-UI-X	380	U T
120-12-7Anthracene	74	JB (
86-74-8Carbazole	380	U
84-74-2Di-n-butylphthalate	380	Ü
206-44-0Fluoranthene	380	U
129-00-0	42	JB P
85-68-7Butylbenzylphthalate	61	1
91-94-13,3'-Dichlorobenzidine	380	Ū
117-81-7bis(2-ethylhexyl)Phthalate	380	ט
56-55-3Benzo(a) anthracene	610	77
218-01-9Chrysene	380	Ū
117-84-0Di-n-octylphthalate	380	ū
205-99-2Benzo(b) fluoranthene	380	U
207-08-9Benzo(k) fluoranthene	380	Ū
50-32-8Benzo(a)pyrene	380	Ū
193-39-5Indeno(1,2,3-cd)pyrene	380	U
53-70-3Dibenzo(a,h)anthracene	380	Ū
191-24-2Benzo(g,h,i)perylene	380	Ū
	380	Ū
- Cannot be separated from Diphenylamine		1

SSMW11-1

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-7

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: Q2812-7JB64

Level: (low/med) LOW

Date Received: 12/04/02

% Moisture: 4 decanted: (Y/N) N

Date Extracted:12/04/02

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 12/11/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

CONCENTRATION UNITS:

GPC Cleanup: (Y/N) N

pH: ____

CAS NO.	COMPOUND (ug/L or ug/I	Kg) UG/KG	Q
	Benzaldehyde	340	U
108-95-2 -		340	U
111-44-4	Bis(2-chloroethyl)ether	340	ט
95-57 - 8 -	2-Chlorophenol	340	U
95 - 48-7	2-Methylphenol	340	ប
108 - 60-1	2,2'-oxybis(1-Chloropropane)	340	Ū
98 - 86-2	Acetophenone	340	U
106-44-5	4-Methylphenol	340	บ
521-64-7	N-Nitroso-di-N-propylamine	340	U
57-72-1- -	Hexachloroethane	340	U
98-95-3	Nitrobenzene	340	บ
78 - 59 - 1	Isophorone	340	U
38-75 - 5 -	2-Nitrophenol	340	U
105-67-9	2,4-Dimethylphenol	340	ט
111-91-1	Bis(2-chloroethoxy)methane	340	ע
120-83-2	2,4-Dichlorophenol	340	lυ
91-20-3	Naphthalene	340	U
106-47-8	4-Chloroaniline	340	U
37-68 - 3	Hexachlorobutadiene	340	ט
L05-60-2 -	Caprolactam_	340	שׁ
59-50-7	4-Chloro-3-methylphenol	340	שׁ
91-57-6	2-Methylnaphthalene	340	ט
77-47-4 	Hexachlorocyclopentadiene	340	ט
38-06-2	2,4,6-Trichlorophenol	340	ט
95-95-4	2,4,5-Trichlorophenol	340	U
92-52-4	1,1'-Biphenyl_	340	ū
91-58-7	2-Chloronaphthalene	340	U
38-74-4	2-Nitroaniline	690	ט
131-11-3	Dimethylphthalate	340	U
506 - 20-2	2,6-Dinitrotoluene	340	U
208-96 - 8	Acenaphthylene	340	Ū
99 - 09-2 -	3-Nitroaniline	690	Ŭ
33 - 32 - 9	Acenaphthene	340	Ū
	FORM I SV		8:

CLIENT SAMPLE NO.

SSMW10D-4

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY

Case No.: SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-13

Sample wt/vol:

30.0 (g/mL) G

Lab File ID: Q2812-13JA64

CONCENTRATION UNITS:

Date Received: 12/04/02

% Moisture: 15

Level: (low/med) LOW

decanted: (Y/N) N

Date Extracted:12/04/02

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 12/11/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: ____

CAS NO.	COMPOUND	(ug/L or	ug/Kg)	UG/KG	Q
51-28-5	2,4-Dinitrophe	nol		2000	U
100-02-7	4-Nitrophenol			780	υ
121-14-2	2,4-DinitrotoI	uene		390	υ
132-64-9	Dibenzofuran			390	Ū
84-66-2	Diethylphtha la	te		390	Ū
7005-72-3	4-Chlorophenyl	-phenylethe	r	390	Ū
86-73-7	Fluorene 1	<u> </u>	-	390	Ū
100-01-6	4-Nitroa niline			780	Ū
534-52-1	4,6-Dinitro-2-	methylpheno	I	780	Ū
86-30-6	N-Nitrosodiphe	nylamine (1) —	390	U
101-55-3	4-Bromophenyl-	phenylether	′ —	390	Ū
118-74-1	Hexachlorobenz	ene		390	Ū
1912-24-9	Atrazine	•		390	Ū
87-86-5	Pentachlorophe	nol		390	Ū
85-01 - 8	Phenanthrene			390	Ū
120-12-7	Anthracene			390	Ū
86-74-8	Carbazole	·		390	Ū
84 - 74-2	Di-n-butylphth	alate		390	ט
206-44-0	Fluoranthene			390	U
129-00-0	Pvrene			390	Ū
85 - 68-7	Butylbenzylpht	halate		390	Ū
91-94-1	3,3′ - Dichlorob	enzidine		390	Ū
117-81-7	bis(2-ethylhex	vl)Phthalat	e	290	J
56-55-3- 	Benzo(a)anthra	cene		390	U
218-01-9 -	Chrvsene	•		390	Ū
117-84-0	Di-n-octylphth	alate		390	Ū
205-99-2 -	Benzo(b)fluora	nthene		390	Ū
207-08-9	Benzo(k)fluora	nthene		390	Ū
50-32-8 <i></i> -	Benzo(a)pyrene			390	Ū
193 - 39-5	Indeno (1.2.3-c	d) pyrene		390	Ū
53 <i>-</i> 70 <i>-</i> 3	Dibenzo(a,h) an	thracene		390	Ū
191-24-2	Benzo(g,h,i)pe	rylene		390	Ū
- Cannot be	separated from Di FORM I	phenylamine			

CLIENT SAMPLE NO.

SSMW11-4

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-8

Sample wt/vol: 30.0 (g/mL) G Lab File ID: Q2812-8A64

Level:

(low/med) LOW

Date Received: 12/04/02

% Moisture: 15 decanted: (Y/N) N

Date Extracted: 12/04/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/10/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

CONCENTRATION UNITS:

GPC Cleanup: (Y/N) N pH: ___

CAS NO.		CONCENTRATION (ug/L or ug/Kg		Q
100-52-7	Benzaldehyde		390	U
108-95-2	Phenol		390	Ŭ
111-44-4	Bis(2-chloroethyl)	ether	390	ן ט
95-57-8	2 - Chlorophenol		390	lŭ l
95-48-7	2-Methylphenol		390	Ŭ
108-60-1	2,2'-oxvbis(1- Chl a	ropropane)	390	Ū
1 98-86-2	Acetophenone	I Prince,	390	ŭ
106-44-5	4-Methylphenol		390	ϋ
621-64-7	·N-Nitroso-di-N-pro	pylamine	390	Ŭ
1 6/-72-1	Hexachloroethane		390	Ŭ
98 - 95-3	Nitrohenzene		390	ŭ
78-59-1	Isophorone		390	ŭ
88-75-5	2-Nitrophenol		390	lŭ l
105-67-9	2,4-Dimethylpheno		390	lŭ l
1 111-91-1	Bis(2-chloroethox:	methane	390	lΰ
120-83-2	2.4-Dichlorophenol		390	Ü
1 91-20-3	Naphthalene		390	ŭ
106-47-8	4-Chloroaniline		390	υ
87-68 - 3- -	Hexachlorobutadier	ie	390	Ŭ
105-60-2	Caprolactam		390	Ŭ
59-50-7 -	4-Chloro-3-methylr	henol	390	lŭ l
91 - 57 - 6	2-Methylnaphthaler		390	ا تا
	Hexachlorocycloper	tadiene	390	lŭ l
88-06-2 -	2.4.6-Trichlorophe	nol	390	Ū
95-95-4	2,4,5-Trichlorophe	nol	390	υ
92-52-4	1.1'-Biphenvl		390	lŭ l
91-58-7 	2-Chloronaphthaler	e	390	Ü
88-74-4	2-Nitroaniline		780	บั
131-11-3	Dimethylphthalate		390	υ
606-20-2	2.6-Dinitrotoluana		390	បី
ZU8-96-8	Acenaphthulana		390	ម័
99-09-2	3-Nitroaniline		780	l u
83-32-9	Acenaphthene		390	[[
			390	
	FORM I SV			
				82700

SSMW11-1

Lab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL Lab Sample ID: Q2812-7

Sample wt/vol: $30.0 \, (g/mL) \, G$ Lab File ID: Q2812-7JB64

Level: (low/med) LOW Date Received: 12/04/02

decanted: (Y/N) N % Moisture: 4 Date Extracted:12/04/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/11/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

	CAS NO.	COMPOUND	CONCENTRATION (ug/L or ug/N		ζ	5	
(3	100-02-7 121-14-2 132-64-9 84-66-2 7005-72-3 86-73-7 100-01-6 534-52-1 86-30-6 101-55-3 118-74-1 1912-24-9 87-86-5 85-01-8 120-12-7 86-74-8 206-44-0 129-00-0 85-68-7 218-01-9 117-81-7 117-81-7 205-99-2 207-08-9 117-84-0 205-99-2 207-08-9 193-39-5 191-24-2	PentachloroplPhenanthreneAnthraceneCarbazoleDi-n-butylphiFluoranthenePyreneButylbenzylphiBenzo(a) anthraceneDi-n-octylphiBenzo(b) fluoreneBenzo(a) pyreneBenzo(a) pyreneBenzo(a) pyreneBenzo(a) pyreneBenzo(a) pyreneBenzo(a) pyreneBenzo(a) pyreneBenzo(a) pyrene	late yl-phenylether ne 2-methylphenol henylamine (1) l-phenylether nzene henol thalate obenzidine exyl)Phthalate racene thalate ranthene ranthene ne -cd)pyrene anthracene perylene Diphenylamine	1700 690 340 340 340 340 690 690 340 340 340 340 340 340 340 340 340 34	ממממממממממממממממממממממ	R	3/1str
		FORM	I SV			82	70C

SSMW11D-1

Lab Name: COMPUCHEM Method: 8270C

GPC Cleanup: (Y/N) N pH: __

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: Q2812

Matrix: (soil/water) SOIL Lab Sample ID: Q2812-9

Sample wt/vol: 30.0 (g/mL) G Lab File ID: Q2812-9A64

Level: (low/med) LOW Date Received: 12/04/02

% Moisture: 3 decanted: (Y/N) N Date Extracted:12/04/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/10/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

108-95-2Phenol 111-44-4Bis(2-chloroethyl)ether 95-57-82-Chlorophenol 95-48-72-Methylphenol	40 U 40 U 40 U 40 U 40 U 40 U 40 U
108-95-2Phenol 3 111-44-4Bis(2-chloroethyl)ether 3 95-57-82-Chlorophenol 3 95-48-72-Methylphenol 3	40 U 40 U 40 U 40 U 40 U
111-44-4Bis (2-chloroethyl) ether 3 95-57-82-Chlorophenol 3 95-48-72-Methylphenol 3	40 U 40 U 40 U 40 U
95-57-82-Chlorophenol 3 95-48-72-Methylphenol 3	40 U 40 U 40 U
95-48-72-Methylphenol	40 U 40 U
	40 U
108-60-12,2'-oxybis(1-Chloropropage) 3	
98-86-2Acetophenone	
106-44-54-Methylphenol	40 U
621-64-7N-Nitroso-di-N-propylamine	40 U
67-72-1Hexachloroethane	40 U
98-95-3Nitrobenzene	40 U
	40 Ü
88-75-52-Nitrophenol	40 U
105-67-92.4-Dimethylphenol	40 U
111-91-1Bls(2-chloroethoxy)methane 3	10 lü
120-83-22.4-Dichlorophenol — 1 3	10 U
91-20-3Naphthalene	40 U
106-47-84-Chloroaniline	10 U
87-68-3Hexachlorobutadiene	10 U
105-60-2Caprolactam	10 U
59-50-74-Chloro-3-methylphenol	10 U
91-57-6	10 U
17-47-4	10 U
$88-06-22.4.6$ -Trichlorophenol $\overline{}$	10 U
10-40-4	10 U
	10 U
91-58-72-Chloronaphthalene	10 U
00-/4-4/-NIFTOANIIINA	30 U
131-11-3Dimethylphthalate	10 U
006-20-2 6-Dinitrotoluene	io U
/UN=YN=N================================	io U
99-09-23-Nitroaniline	
83-32-9Acenaphthene	
3.	'
FORM I SV	!!

SSMW11-4

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-8

Sample wt/vol:

30.0 (g/mL) G

Lab File ID: 02812-8A64

Level: (low/med) LOW Date Received: 12/04/02

% Moisture: 15

decanted: (Y/N) N

Date Extracted:12/04/02

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 12/10/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

CONCENTRATION INTTO.

GPC Cleanup: (Y/N) N

pH: ____

87-86-5 390 85-01-8	2
100-02-74-Nitrophenol 780 U 121-14-22, 4-Dinitrotoluene 390 U 132-64-9Dibenzofuran 390 U 132-64-9Dibenzofuran 390 U 132-64-9Diethylphthalate 390 U 132-64-9A-Chlorophenyl-phenylether 390 U 132-64-9A-Chlorophenyl-phenylether 390 U 132-64-9A-Chlorophenyl-phenylether 390 U 132-64-9A-Chlorophenyl-phenylether 390 U 132-64-9A-Chlorophenyl-phenylether 390 U 132-64-9	
132-64-9	
84-66-2	
Top	1
Tools	
86-73-7	
100-01-64-Nitroaniline	
534-52-14,6-Dinitro-2-methylphenol 780 U 86-30-6N-Nitrosodiphenylamine (1) 390 U 101-55-34-Bromophenyl-phenylether 390 U 118-74-1Hexachlorobenzene 390 U 1912-24-9Atrazine 390 U 87-86-5Pentachlorophenol 390 U 85-01-8Phenanthrene 390 U 120-12-7Anthracene 390 U 86-74-8Carbazole 390 U 84-74-2Di-n-butylphthalate 390 U 206-44-0Fluoranthene 390 U 129-00-0Pyrene 390 U 85-68-7	
86-30-6N-Nitrosodiphenylamine (1) 390 U 101-55-34-Bromophenyl-phenylether 390 U 118-74-1Hexachlorobenzene 390 U 1912-24-9Atrazine 390 U 87-86-5Pentachlorophenol 390 U 85-01-8	ŀ
101-55-34-Bromophenyl-phenylether	
1912-24-9Atrazine 390 U 1912-24-9Atrazine 390 U 1912-24-9Atrazine 390 U 1912-24-9	
1912-24-9Atrazine 390 U - 687-86-5	
87-86-5Pentachlorophenol 390 U 85-01-8Phenanthrene 390 U 120-12-7Anthracene 390 U 86-74-8Carbazole 390 U 84-74-2Di-n-butylphthalate 390 U 206-44-0Fluoranthene 390 U 129-00-0Pyrene 390 U 85-68-7Butylbenzylphthalate 390 U 91-94-13,3'-Dichlorobenzidine 390 U 117-81-7Benzo(a) anthracene 390 U 218-01-9Benzo(a) anthracene 390 U 218-01-9Benzo(b) fluoranthene 390 U 207-08-9Benzo(b) fluoranthene 390 U 50-32-8Benzo(c) fluoranthene 390 U 50-32-8Benzo(c) fluoranthene 390 U 193-39-5	R
390 U 120-12-7	'-
120-12-7Anthracene 390 U 86-74-8Carbazole 390 U 84-74-2Di-n-butyIphthalate 390 U 206-44-0Fluoranthene 390 U 129-00-0Pyrene 390 U 85-68-7Butylbenzylphthalate 390 U 91-94-13,3'-Dichlorobenzidine 390 U 117-81-7Benzo(a) anthracene 390 U 218-01-9	1.1
86-74-8Carbazole 390 U 84-74-2Di-n-butylphthalate 390 U 206-44-0Fluoranthene 390 U 129-00-0Pyrene 390 U 85-68-7Butylbenzylphthalate 390 U 91-94-13,3'-Dichlorobenzidine 390 U 117-81-7bis(2-ethylhexyl)Phthalate 270 J 56-55-3Benzo(a)anthracene 390 U 218-01-9Benzo(a)anthracene 390 U 217-84-0Benzo(b)fluoranthene 390 U 207-08-9Benzo(b)fluoranthene 390 U 50-32-8Benzo(k)fluoranthene 390 U 50-32-8Benzo(a)pyrene 390 U	31
84-74-2Di-n-butylphthalate 390 U 206-44-0Fluoranthene 390 U 129-00-0Pyrene 390 U 85-68-7Butylbenzylphthalate 390 U 91-94-13,3'-Dichlorobenzidine 390 U 117-81-7bis(2-ethylhexyl)Phthalate 270 J 56-55-3Benzo(a)anthracene 390 U 218-01-9Benzo(a)anthracene 390 U 217-84-0Benzo(b)fluoranthene 390 U 207-08-9Benzo(b)fluoranthene 390 U 50-32-8Benzo(k)fluoranthene 390 U 50-32-8Benzo(a)pyrene 390 U	
206-44-0Fluoranthene 390 U 129-00-0	
129-00-0	!
85-68-7Butylbenzylphthalate 390 U 91-94-13,3'-Dichlorobenzidine 390 U 117-81-7bis(2-ethylhexyl)Phthalate 270 J 56-55-3Benzo(a)anthracene 390 U 218-01-9Chrysene 390 U 117-84-0Benzo(b)fluoranthene 390 U 205-99-2Benzo(b)fluoranthene 390 U 207-08-9Benzo(k)fluoranthene 390 U 50-32-8Benzo(a)pyrene 390 U 193-39-5Indeno(1, 2, 3-cd)pyrene 390 U	
117-81-73,3'-Dichlorobenzidine 390 U 117-81-7bis (2-ethylhexyl) Phthalate 270 J 56-55-3Benzo (a) anthracene 390 U 218-01-9Chrysene 390 U 217-84-0Benzo (b) fluoranthene 390 U 205-99-2Benzo (b) fluoranthene 390 U 207-08-9Benzo (k) fluoranthene 390 U 207-32-8Benzo (a) pyrene 390 U 207-32-8	
117-81-7bis (2-ethylhexyl) Phthalate	
390 U 218-01-9Chrysene 390 U 117-84-0Benzo(b) fluoranthene 390 U 205-99-2Benzo(b) fluoranthene 390 U 207-08-9Benzo(k) fluoranthene 390 U 50-32-8Benzo(a) pyrene 390 U	[
218-01-9Chrysene	
117-84-0Di-n-octylphthalate 390 U 205-99-2Benzo(b) fluoranthene 390 U 207-08-9Benzo(k) fluoranthene 390 U 50-32-8Benzo(a) pyrene 390 U 193-39-5Indeno(1, 2, 3-cd) pyrene 390 U	
205-99-2Benzo(b) fluoranthene 390 U 207-08-9Benzo(k) fluoranthene 390 U 50-32-8Benzo(a) pyrene 390 U 193-39-5Indeno(1, 2, 3-cd) pyrene 390 U	
207-08-9Benzo(k) fluoranthene 390 U 50-32-8Benzo(a) pyrene 390 U 193-39-5Indeno(1, 2, 3-cd) pyrene 390 U	
50-32-8Benzo(a)pyrene 390 U	
193-39-5Indeno(1, 2, 3-cd) pyrene	
53-70-3Dibenzo(a.h)anthracene	
191-24-2Benzo(g,h,i)perylene	
- Cannot be separated from Diphenylamine	

SSMW11D-4

Lab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: Q2812

Matrix: (soil/water) SOIL Lab Sample ID: Q2812-10

Sample wt/vol: 30.0 (g/mL) G Lab File ID: Q2812-10A64

Level: (low/med) LOW Date Received: 12/04/02

% Moisture: 14 decanted: (Y/N) N Date Extracted:12/04/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/10/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: __

CAS NO. COMPOUND CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	(ug/L or u	.g/Kg) t	JG/KG	Q
100-52-7	Benzaldehyde	-		380	U
108-95-2	Phenol			380	Ū
111-44-4	Bis(2-chloroethy	1)ether		380	Ü
95-57-8	2-Chlorophenol		-	380	บั
95-48-7	2-Methvlphenol			380	Ŭ
108-60-1	·2.2'~oxvbis(1-Ch	loropropane	T	380	Ū
98-86-2	·Acetophenone		'	380	lΰ
106-44-5	·4-Methylphenol	· · · · · · · · · · · · · · · · · · ·	-	380	υ
621-64-7	N-Nitroso-di-N-n	ropylamine	-	380	ϋ
67-72-1	·Hexachloroethane	- F1		380	Ŭ
98-95-3	Nitrobenzene			380	Ü
78-59-1	Isophorone		-	380	Ü
88-75-5	Isophorone 2-Nitrophenol		-	380	Ü
105-67-9 - -	2.4-Dimethylphen	0	-	380	lΰ
111-91-1	Bis(2-chloroetho	xvlmethane	-1	380	บั
120-83-2	2.4-Dichlorophen	o]	-	380	Ü
91-20-3	Naphthalene		-	380	υ
106-47-8	4-Chloroaniline	 -	-	380	บี
87-68-3	Hexachlorobutadī	ene	-	380	บั
105-60-2	Caprolactam		-	380	1
59-50 - 7	4-Chloro-3-methy	phenol	-i	380	U
91-57-6	2-Methylnaphthal	ene	-	380	U
//-4/-4	Hexachlorocyclon	ontadiana	-	380	U
88-06-2	2.4.6-Trichloron	henol	-		Ŭ
33-33-4	/.4 b-Trichloron	henol	-	380	Ü
92-52-4	1.1'-Biphenvl		-	380	Ü
91-58-7	2-Chloronaphthal	one	-	380	Ü
88-74-4	2-Nitroaniline	G116	- ∤	380	ū
131-11-3	Dimethylphthalate		-1	770	U
606-20-2	2,6-Dinitrotolue	E		380	U
208-96-8	Acenaphthylene_		-1	380	U
99-09-2	3-Nitroaniline		-	380	U
83-32-9	Acenaphthene		_	770	U
55 52 5	Acenaphenene		_1	380	U
	FORM I S	· · · · · · · · · · · · · · · · · · ·	_		
	LOUI I S	v			8

SSMW11D-1

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-9

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

Q2812-9A64

Level: (low/med) LOW

Date Received: 12/04/02

% Moisture: 3 decanted: (Y/N) N Date Extracted:12/04/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/10/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: ____

	CAS NO.	COMPOUND	CONCENTRATION (ug/L or ug/K		Q	
(1	100-02-7 121-14-2 132-64-9 84-66-2 7005-72-3 86-73-7 100-01-6 534-52-1 86-30-6 101-55-3 118-74-1 1912-24-9 87-86-5 85-01-8 120-12-7 86-74-8 206-44-0 129-00-0 85-68-7 91-94-1 117-81-7 117-81-7 205-99-2 207-08-9 117-84-0 205-99-2 207-08-9 117-84-0	4-Nitroaniline4,6-Dinitro-2-mN-Nitrosodiphen4-Bromophenyl-pHexachlorobenzeAtrazinePentachlorophenPhenanthreneCarbazoleDi-n-butylphthaFluoranthenePyreneButylbenzylphth3,3'-Dichlorobebis(2-ethylhexyBenzo(a)anthracChryseneDi-n-octylphthaBenzo(b)fluoranBenzo(b)fluoranBenzo(a)pyreneIndeno(1,2,3-cdDibenzo(a,h)antBenzo(g,h,i)per	ene e phenylether ethylphenol ylamine (1) henylether ne ol late alate nzidine l) Phthalate ene late thene thene hracene ylene henylamine	1700 680 340 340 340 340 340 340 340 340 340 34	ממממממממממממממממממממממממממממממממממממממ	3/2563
		FORM I	SV		82	270C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SS-MW09-0

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-14

Sample wt/vol:

15.0 (g/mL) G

Lab File ID: Q2812-14A64

Level: (low/med) LOW

Date Received: 12/11/02

% Moisture: 8

decanted: (Y/N) N

Date Extracted:12/11/02

Concentrated Extract Volume:

500 (uL)

Date Analyzed: 12/18/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: ____

Number TICs found: 5

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	(NOWN (BC)	5.32		1
	(NOWN (BC)	5.61	910	
	CNOWN (BC)	6.91	320	JB
7 0111	(NOWN AMMASITOSTEROL	7.26	190	
6	WMASITOSTEROL	22.07	200	NJ
7:				
8.		-		
9.		-		l
0		-		 -
- ·				
2		-		
3.				
4				
5	<u> </u>			
5				
7		-		
9		_		
)		_		
1.		-		
2.		— -		
3.				
		 -		
		-		
) •		-		
· •		-		
3				
·				

FORM 1 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SSMW11D-4

Lab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: Q2812

Matrix: (soil/water) SOIL Lab Sample ID: Q2812-10

Sample wt/vol: 30.0 (g/mL) G Lab File ID: Q2812-10A64

Level: (low/med) LOW Date Received: 12/04/02

% Moisture: 14 decanted: (Y/N) N Date Extracted:12/04/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/10/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/Kg) ${\tt UG/KG}$	Q

	confoolib (ag/11 of ag/		_
51-28-5	2,4-Dinitrophenol	1900	U
100-02-7	4-Nitrophenol	770	Ū
121-14-2	2,4-Dinitrotoluene	380	ן ט
132-64-9	Dibenzofuran	380	U
	Diethylphthalate	380	U
7005-72-3 	4-Chlorophenyl-phenylether	380	Ū
86-73-7	Fluorene	380	บ
	4-Nitroaniline	770	Ü
	4,6-Dinitro-2-methylphenol	770	บ
86-30-6	N-Nitrosodiphenylamine (1)	380	Ū
101 - 55-3	4-Bromophenyl-phenylether	380	Ū
118-74-1	Hexachlorobenzene	380	U
1912-24-9	Atrazine	380	UR
87-86-5	Pentachlorophenol	380	ן ט
85-01-8	Phenanthrene	380	บ
120-12-7	Anthracene	380	บ
	Carbazole	380	ี บ
84-74-2	Di-n-butylphthalate	380	U
206 -44- 0	Fluoranthene	380	U
129-00-0	Pyrene	380	U
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3'-Dichlorobenzidine	380	U
117-81-7	bis(2-ethylhexyl)Phthalate	200	J
	Benzo(a)anthracene	380	U
218-01-9	Chrysene	380	U
117-84-0	Di-n-octylphthalate	380	[บ
205-99-2	Benzo(b)fluoranthene	380	ט
207-08-9	Benzo(k)fluoranthene	380	ט
50-32-8	Benzo(a)pyrene	380	ע
193-39-5	Indeno(1,2,3-cd)pyrene	380	U
53 - 70-3	Dibenzo(a,h)anthracene	380	U
101.24.2	Benzo(g,h,i)perylene	380	U

(i) - Cannot be separated from Diphenylamine FORM I SV

8270C

FORM 1 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SS-MW09-4

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

O2812-16A64

Sample wt/vol:

(low/med)

Lab File ID:

Level:

LOW

Date Received: 12/11/02

% Moisture: 9

decanted: (Y/N) N

15.0 (g/mL) G

Date Extracted:12/11/02

Lab Sample ID: Q2812-16

Concentrated Extract Volume: 500(uL)

Date Analyzed: 12/18/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: ____

Number TICs found: 10

CONCENTRATION UNITS: (ug/L or ug/Kq) ug/Kq 3/25/25

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	- UNKNOWN (BC)			
2.	UNKNOWN (BC)	5.32	300	30 6
2.		5.60	710	
4.	UNKNOWN SILOXANE	7.40	160	
5.	UNKNOWN	7.62	260	J J
	STRAIGHT-CHAIN ALKANE	15.56	350	
6.	UNKNOWN	16.39	220	J
7.	UNKNOWN	17.14	220	J
8.	UNKNOWN ALKANE	17.81	240	J
9.	STRAIGHT-CHAIN ALKANE	18.43		
0.	STRAIGHT-CHAIN ALKANE		230	J
1.	OTHER CHAIN ADVANC	19.00	280	J 4
2.				
3.				
4.				
5				
6.				
7				
8.				
9.				
0.		I———I		-
1.				
2.	_			
ຸ້າ				
3.		l		
4.				
o.				
6.				
1.				
υ.		l [
9.				
0.				
· — — — — — — — — — — — — — — — — — — —		1 1		

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SS-MW09-1

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-15

Sample wt/vol:

15.0 (g/mL) G

Lab File ID:

Q2812-15A64

Level:

(low/med) LOW Date Received: 12/11/02

% Moisture: 7

decanted: (Y/N) N

Date Extracted:12/11/02

Concentrated Extract Volume: 500(uL)

Date Analyzed: 12/18/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: ____

Number TICs found: 10

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC)	5.32	430	===== В В
2.	UNKNOWN (BC)	5.61	1000	
3.	UNKNOWN (BC)	6.88	240	JB 1
4.	UNKNOWN	6.91	150	
5.	STRAIGHT-CHAIN ALKANE	7.02	150	
<u>6</u> . 826-36 - 8	4-PIPERIDINONE, 2,2,6,6-TETR	7.24	170	NJ L
7.	UNKNOWN SILOXANE	7.40	300	J
8.	UNKNOWN AMIDE	19.32	140	
9.	UNKNOWN	19.56	310	J
10.	UNKNOWN	23.15	140	J 🟌
11				
12.				
13.				
15				
15. 16.				
17.				·
18.				
: ±J.				
40.				
. 4.				
44.				
23.				
24.				
,				
20.				
41.				
20.				
49,				
30.				
	FORM I SV-TIC			

FORM 1 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SSMW07-1

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-2

Sample wt/vol:

30.0 (g/mL) G

Lab File ID:

Q2812-2A64

Level:

(low/med)

LOW

Date Received: 12/04/02

% Moisture: 8

decanted: (Y/N) N

Date Extracted: 12/04/02

Concentrated Extract Volume:

1000 (uL)

Date Analyzed: 12/10/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: ____

Number TICs found: 9

CAS NUMBER	COMPOUND NAME	D.M.	DOM GOVE	
=======================================	======================================	RT	EST. CONC.	QQ
1.	UNKNOWN	5.32	240	J J
3	UNKNOWN (BC)	5.38	420	JB B
4.	UNKNOWN (BC)	5.66 5.88	370	
5.	UNKNOWN	6.96	170 390	_
6. 7. 192-97 - 2	UNKNOWN (BC)	7.32	230	
8. 53584-60-4	BENZO[E] PYRENE 28-NOR-17.ALPHA.(H)-HOPANE	19.99	190	NJ J
9.	UNKNOWN	20.98	270 350	NJ J ↓
10		21.39	350	J 4
12.				
44.				
1J.				
17.				
19.				
20.				
22.				
23.				
24.			,	
25.				
26. 27.				
20.				
49.				
30.				
	FORM I SV-TIC			

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM

Method: 8270C

SSMW07-0

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-1

Sample wt/vol:

30.0 (q/mL) G

Lab File ID: 02812-1A64

Level: (low/med)

LOW

Date Received: 12/04/02

% Moisture: 5

decanted: (Y/N) N

Date Extracted:12/04/02

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 12/10/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

Number TICs found: 16

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 2. 3. 4. 5. 57-10-3 6. 7. 8. 9. 10. 11. 12. 13. 14021-23-9 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30.	UNKNOWN UNKNOWN (BC) UNKNOWN HEXADECANOIC ACID UNKNOWN	5.32 5.66 5.95 12.79 17.32 19.14 19.33 19.70 19.78 19.85 19.94	320 450 400 140 160 150 600 450 420 500 270 150 1000 290 290 150	JBBJNJJJJJJJJJJJJJ

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM

Method: 8270C

SSMW08-0

Lab Code: LIBRTY Case No.: SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-4

Sample wt/vol:

30.0 (g/mL) G

Lab File ID: Q2812-4DA64

Level:

(low/med) LOW

Date Received: 12/04/02

% Moisture: 6

decanted: (Y/N) N

Date Extracted:12/04/02

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 12/10/02

Injection Volume: 1.0(uL)

Dilution Factor: 3.0

GPC Cleanup: (Y/N) N

pH:

Number TICs found: 20

CAS NUMBER COMPOUND NAME	RT	EST. CONC.	_ ~
1. 90-12-0 NAPHTHALENE, 1-METHYL- 2. 575-43-9 NAPHTHALENE, 1,6-DIMETHYL- 3. 569-41-5 NAPHTHALENE, 1,8-DIMETHYL-	8.70 9.27 9.36 12.48	1700 1100 2000 560 580 890 610 730 700 620 520	

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM

Method: 8270C

SSMW07-4

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-3

Sample wt/vol:

30.0 (g/mL) G

Lab File ID:

O2812-3A64

Level:

(low/med)

Date Received: 12/04/02

decanted: (Y/N) N

Date Extracted:12/04/02

% Moisture: 20

Concentrated Extract Volume:

LOW

Date Analyzed: 12/10/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup:

(Y/N) N

pH: ___

1000(uL)

Number TICs found: 6

CAS NUMBER	COMPOSIND NAME	ਸਾਧ	EST CONC	
CAS NUMBER ===================================	COMPOUND NAME ===================================	RT 5.37 5.66 6.96 7.30 7.69 21.89	EST. CONC.	JB JB NJ T JB
11. 12. 13. 14. 15. 16. 17. 18. 19.				
21. 22. 23. 24. 25. 26. 27. 28. 29.				
30	FORM I SV-TIC			

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SSMW08-4

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-6

Sample wt/vol:

30.0 (g/mL) G

Lab File ID: Q2812-6A64

Level:

(low/med)LOW Date Received: 12/04/02

% Moisture: 12

decanted: (Y/N) N

Date Extracted: 12/04/02

Concentrated Extract Volume: 1000(uL)

Injection Volume: 1.0(uL)

Date Analyzed: 12/10/02

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: ____

Number TICs found: 20

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 79-34-5 2. 3. 4. 5. 6. 7. 571-61-9 8. 581-40-8 9. 10. 486-25-9 11. 120-12-7 12. 613-12-7 13. 84-65-1 14. 192-97-2 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30.	ETHANE, 1,1,2,2-TETRACHLORO- UNKNOWN (BC) UNKNOWN UNKNOWN UNKNOWN UNKNOWN (BC) NAPHTHALENE, 1,5-DIMETHYL- NAPHTHALENE, 2,3-DIMETHYL- UNKNOWN ALKANE 9H-FLUOREN-9-ONE ANTHRACENE 150ME/L ANTHRACENE, 2-METHYL- 9,10-ANTHRACENEDIONE BENZO [E] PYRENE UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN TOTALL FORM I SV-TIC	5.34 5.38 5.66 6.98 7.40 7.62 9.26 9.36 10.78 11.25 11.56 12.49 13.30 19.99 21.00 21.03 21.41 21.86 22.22 22.30	480 370 310 230 260 230 410 200 340 1400 200 220 400 650 230 1400 400	==== JB JB JB JB JB JB JB JB JB JB

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SSMW08-1

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-5

Sample wt/vol:

30.0 (g/mL) G

Lab File ID: Q2812-5A64

Level: (low/med)

LOW

Date Received: 12/04/02

% Moisture: 13

decanted: (Y/N) N

Date Extracted:12/04/02

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 12/10/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup:

(Y/N) N

pH: ____

Number TICs found: 13

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg 3/2/13

1. UNKNOWN 2. UNKNOWN (BC) 3. UNKNOWN (BC)	5.34 5.39	460	֓֞֞֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓
4. UNKNOWN 5. UNKNOWN 6. UNKNOWN 7. UNKNOWN (BC) 8. UNKNOWN (BC) 9. UNKNOWN 10. 207-08-9 BENZO[K] FLUORANTHENE ISOMER 11. UNKNOWN 12. UNKNOWN	5.66 5.89 5.96 6.69 6.97 7.33 7.72 19.98 21.00 21.40 21.84	486 240 160 170 680 490	BBT-BBJNJJ

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM

Method: 8270C

SSMW10-4

Lab Code: LIBRTY

Case No.:

LOW

SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-12

Sample wt/vol:

30.0 (g/mL) G

Lab File ID:

Q2812-12JB64

Level:

(low/med)

Date Received: 12/04/02

% Moisture: 13

decanted: (Y/N) N

Date Extracted:12/04/02

Concentrated Extract Volume:

1000 (uL)

Date Analyzed: 12/11/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup:

(Y/N) N

pH:

Number TICs found: 10

		T		$\overline{}$
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Ιo
		======	===========	=====
1.	UNKNOWN (BC)	5.39	380	JB B
2.	UNKNOWN (BC)	5.66	400	
3.	UNKNOWN	5.90	200	
4.	UNKNOWN (BC)	6.98	_630	
5.	UNKNOWN (BC)	7.33	400	
6.	UNKNOWN (BC)	7.64	160	
7.	UNKNOWN ALKANE	10.49	160	JJ
8.	BRANCHED ALKANE	10.81	160	J
9. 10544-50-0	SULFUR, MOL. (S8)	14.14	250	
10.	UNKNOWN	21.40	170	J 🕹
11.				
1 +2.				
1 10.				
1 14.				
16.				
1 1.				
1 10.				
1 4.7 •				
, 20.				
L 21.				
1 22.				
I Z.3.				
27.				
	l <u></u>			
1 20.				
27.				
20.				
29.				
30.				

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM

Method: 8270C

SSMW10-0

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-11

Sample wt/vol:

30.0 (g/mL) G

Lab File ID: 02812-11A64

Level:

(low/med)

Date Received: 12/04/02

% Moisture: 11

LOW

decanted: (Y/N) N

Date Extracted:12/04/02

Concentrated Extract Volume: 1000(uL)

Number TICs found: 4

Date Analyzed: 12/10/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: ____

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC)		8==========	=====
		5.38	470	
- '	UNKNOWN (BC)	5.66	380	JB L
- ·	UNKNOWN	6.96	230	J J
	UNKNOWN	7.47	270	J 3
5				_
6				
7.				
8.				
9.				
10.				
11.		— ——— -		
12.		-		
		 -		
14.		-		
15.				-
16.		_		
17		_ _		
17.		.		
18.		_ _		
20				
20.				
21.				
44.		_		
23.				
44.		_ -		
23.		- -		
20.		_ -		
		- -		
20.		— ——— -		
		- -		
30.				
-				
	FORM I SV-TIC			

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SSMW11-1

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.:

SDG No.: Q2812

Lab Sample ID: Q2812-7

Sample wt/vol: 30.0 (g/mL) G

Matrix: (soil/water) SOIL

Lab File ID: Q2812-7JB64

Level: (low/med) LOW

Date Received: 12/04/02

% Moisture: 4

decanted: (Y/N) N

Date Extracted:12/04/02

Concentrated Extract Volume: 1000(uL)

Number TICs found: 4

Date Analyzed: 12/11/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: ____

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC)	== ====== 		
2.	UNKNOWN (BC)	5.66	360	JВ
3.	UNKNOWN (BC)	6.98		
J. 1	UNKNOWN		370	
5.	ONKNOWN	7.46	440	J
		.		
6.				
1.				
O .				
J.				
0.				
1.				
2				
3		— -		· ——
4		 -		
5		-		
ć ·				
6.				
7 .		_ ,		
8				
J.				
U .				
		_ -	W-1-1	
		-		
		-		
		- -		
5		— ————		
6		— .		
6		_		
ο.				
9				
0.		_ -		
		- -		

FORM 1 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS SSMW10D-4 Method: 8270C Lab Name: COMPUCHEM

SAS No.: SDG No.: Q2812 Case No.: Lab Code: LIBRTY

Lab Sample ID: Q2812-13 Matrix: (soil/water) SOIL

Q2812-13JA64 Lab File ID: Sample wt/vol: 30.0 (q/mL) G

Level: (low/med) LOW Date Received: 12/04/02

% Moisture: 15 decanted: (Y/N) N Date Extracted: 12/04/02

Concentrated Extract Volume: Date Analyzed: 12/11/02 1000 (uL)

Dilution Factor: 1.0 Injection Volume: 1.0(uL)

pH:

(Y/N) N

GPC Cleanup:

CONCENTRATION UNITS: Number TICs found: 5 (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC)		360	JB B
2.	UNKNOWN (BC)	5.39	420	JB ↓
3.	UNKNOWN (BC)	5.66	1100	
3.		5.90	160 	
4.	UNKNOWN (BC)	6.98		
5.	UNKNOWN (BC)	7.35	500	AR D
6				
7.				
0.				
J .				
10.				
11.				
12.				
4 J •				
1J.				
10.				
.1 / .				. ————
10.				
19.				
20.				
21.		 -		
22				
22.	-			
43.			 -	
24.	-			
25.	-	<u> </u>		
26. 27				
	_			
20.				
ZJ.				
30.			•	
	DODM T OV TIC			

FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SSMW11D-1

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY

Case No.: SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-9

Sample wt/vol:

30.0 (g/mL) G

Lab File ID: Q2812-9A64

Level:

(low/med)

LOW

Date Received: 12/04/02

% Moisture: 3

decanted: (Y/N) N

Date Extracted:12/04/02

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 12/10/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: ____

CONCENTRATION UNITS:

Number TICs found: 7 (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 2. 3. 826-36-8 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25.	COMPOUND NAME	RT ====== 5.37 5.66 7.28 7.47 7.67 8.46 21.40	460	JB JB JJ JB JJ JB JB JJ JB JB JJ JB JB J
25. 26. 27. 28. 29. 30.	FORM I CV TIC			

CLIENT SAMPLE NO.

FORM 1 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

SSMW11-4

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-8

Sample wt/vol:

30.0 (g/mL) G

Lab File ID: O2812-8A64

Level:

(low/med) LOW

Date Received: 12/04/02

% Moisture: 15

decanted: (Y/N) N

Date Extracted:12/04/02

Concentrated Extract Volume:

1000 (uL)

Date Analyzed: 12/10/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup:

(Y/N) N

pH:

Number TICs found: 8

SS-MW09-0

Lab Name: COMPUCHEM Contract: 8081A-8082

Lab Code: COMPU Case No.: SAS No.: SDG No.: Q2812

Matrix: (soil/water) SOIL Lab Sample ID: Q2812-14

Lab File ID: Sample wt/vol: 15.0 (q/mL) G

Date Received: 12/11/02 % Moisture: 8 decanted: (Y/N) N

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/11/02

Concentrated Extract Volume: 2500(uL) Date Analyzed: 12/13/02

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: 3/25/03 CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG 0 309-00-2-----Aldrin 0.90 U 319-84-6-----alpha-BHC 0.90 U 319-85-7-----beta-BHC 1.8 U 319-86-8-----delta-BHC 0.90 U 658-89-9-----gamma-BHC (Lindane) 0.90 U 672-54-8------4,4'-DDD 2.7 JP 1.7 J 7 72-55-9-----4,4'-DDE 50-29-3-----4,4'-DDT T 8.8 P r 60-57-1-----Dieldrin 1.8 U 959-98-8-----Endosulfan I 1.8 U $^{
m A}$ 33213-65-9----Endosulfan I $\overline{
m I}$ 3.6 U 51031-07-8-----Endosulfan sulfate 3.6 U 72-20-8-----Endrin 3.6 U ~ 7421-93-4-----Endrin Aldehyde 3.6 U 76-44-8-----Heptachlor 0.90 U 31024-57-3-----Heptachlor Epoxide 0.90 U 72-43-5-----Methoxychlor____ 9.0 U 8001-35-2----Toxaphene 90 U 12674-11-2----Aroclor-1016 71 U 11104-28-2----Aroclor-1221 92 U 11141-16-5----Aroclor-1232 71 U 53469-21-9----Aroclor-1242 49 U 12672-29-6-----Aroclor-1248 49 U

11097-69-1-----Aroclor-1254

11096-82-5----Aroclor-1260

53494-70-5----Endrin Ketone

5103-74-2----gamma-Chlordane

6 5103-71-9-----alpha-Chlordane

49 U

71 U

9.0 U

1.8 U

0.90 U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SSMW11D-4

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-10

Sample wt/vol:

30.0 (g/mL) G

Lab File ID: Q2812-10A64

Level:

(low/med)

Date Received: 12/04/02

% Moisture: 14

decanted: (Y/N) N

Date Extracted:12/04/02

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 12/10/02

Injection Volume: 1.0(uL)

LOW

Dilution Factor: 1.0

GPC Cleanup:

(Y/N) N

pH: ____

Number TICs found: 5

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC)	5.38	======================================	
2.	UNKNOWN (BC)	5.66	350	JB
3.	UNKNOWN (BC)	6.93	540	
4. 826-36-8	4-PIPERIDINONE, 2,2,6,6-TETR	7.28	290	
5.	UNKNOWN (BC)	7.67	250	
6.			250	י פס
7				
·				
J .				
0.				
1				
.2.				
		_		
. 1 .				
. U .		_		
. / .				
. O .				

20.				
21				
21.				
2.				
3.	- -			
. T .				
. J .				
0.				

3/25/23

Lab Name: COMPUCHEM Contract: 8081A-8082 SS-MW09-4

Lab Code: COMPU Case No.: SAS No.: SDG No.: Q2812

Matrix: (soil/water) SOIL Lab Sample ID: Q2812-16

Sample wt/vol: 15.0 (g/mL) G Lab File ID:

% Moisture: 9 decanted: (Y/N) N Date Received: 12/11/02

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/11/02

Concentrated Extract Volume: 2500(uL) Date Analyzed: 12/13/02

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

309-00-2-----Aldrin 0.91 U 319-84-6-----alpha-BHC 0.91 U 319-85-7-----beta-BHC 1.9 U 319-86-8-----delta-BHC 0.91 U 58-89-9-----gamma-BHC (Lindane) 0.91 U 6.4 P J 72-55-9-----4,4'-DDE 1.9 U 50-29-3-----4,4'-DDT 7.3 60-57-1-----Dieldrin 1.9 0 959-98-8-----Endosulfan I 1.9 U 33213-65-9-----Endosulfan II 3.6 U 1031-07-8-----Endosulfan sulfate 3.6 U 72-20-8-----Endrin 3.6 U 7421-93-4-----Endrin Aldehyde 3.6 U 76-44-8------Heptachlor 0.91 U 1024-57-3-----Heptachlor Epoxide__ 0.91 U 72-43-5-----Methoxychlor 9.1 U 8001-35-2----Toxaphene 91 U 12674-11-2----Aroclor-1016 71 U 11104-28-2----Aroclor-1221 93 U 11141-16-5----Aroclor-1232 71 U 53469-21-9-----Aroclor-1242 49 U 12672-29-6-----Aroclor-1248 49 U 11097-69-1-----Aroclor-1254 11096-82-5-----Aroclor-1260 53494-70-5-----Endrin Ketone 49 U 71 U 9.1 U 5103-74-2----gamma-Chlordane 0.91 U 5103-71-9-----alpha-Chlordane 1.9 U

SS-MW09-1 Lab Name: COMPUCHEM Contract: 8081A-8082 Lab Code: COMPU Case No.: SAS No.: SDG No.: Q2812 Matrix: (soil/water) SOIL Lab Sample ID: 02812-15 Sample wt/vol: 15.0 (g/mL) G Lab File ID: % Moisture: 7 decanted: (Y/N) N Date Received: 12/11/02 Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/11/02 Concentrated Extract Volume: 2500(uL) Date Analyzed: 12/13/02 Injection Volume: 2.0(uL) Dilution Factor: 1.0 GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q 309-00-2-----Aldrin 0.89 U 319-84-6-----alpha-BHC 0.89 0 319-85-7-----beta-BHC 1.8 U 319-86-8-----delta-BHC 0.89 U 0.89 U 3.5 U 72-55-9-----4,4'-DDE_ 2.6 50-29-3-----4,4'-DDT 5.4 U 60-57-1-----Dieldrin 1.8 U 959-98-8-----Endosulfan I 1.8 U 33213-65-9-----Endosulfan I \overline{I} 3.5 U 1031-07-8-----Endosulfan sulfate 3.5 U 72-20-8-----Endrin 3.5 U 7421-93-4-----Endrin Aldehyde 3.5 U 76-44-8-------Heptachlor Epoxide 0.89 U 0.89 U 72-43-5-----Methoxychlor 8.9 U 8001-35-2----Toxaphene 89 U 12674-11-2-----Aroclor-1016 70 U 11104-28-2----Aroclor-1221 91 U 11141-16-5-----Aroclor-1232 70 U 53469-21-9-----Aroclor-1242 48 U 12672-29-6-----Aroclor-1248 48 U 11097-69-1-----Aroclor-1254 48 U 11096-82-5-----Aroclor-1260

53494-70-5----Endrin Ketone

5103-74-2----gamma-Chlordane

5103-71-9-----ālpha-Chlordane

67 J

8.9 U

0.89 | U

1.8 U

Lab Name: COMPUCHEM Contract: 8081A-8082

Lab Code: COMPU Case No.: SAS No.: SDG No.: Q2812

Matrix: (soil/water) SOIL Lab Sample ID: Q2812-2

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 8 decanted: (Y/N) N Date Received: 12/04/02

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/04/02

Concentrated Extract Volume: 5000(uL) Date Analyzed: 12/09/02

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

309-00-2-----Aldrin 0.90 U

		, .
309-00-2Aldrin	0.90	U
319-84-6alpha-BHC	0.90	-
319-85-7beta-BHC	1.8	Ü
319-86-8delta-BHC	0.90	_
58-89-9gamma-BHC (Lindane)	0.90	
72-54-84,4'-DDD	3.6	-
72-55-94,4'-DDE		
50-29-34,4'-DDT	1.8	Ŭ
60-57-1Dieldrin	5.4	
959-98-8Endosulfan I	1.8	U
33213-65-9Endosulfan II	1.8	Ū
1031-07-8Endosulfan sulfate	3.6	Ŭ
72-20-8Endrin	3.6	Ŭ
7401 00 4 Endnin 7 Helinia	3.6	U
7421-93-4Endrin Aldehyde	3.6	U
76-44-8Heptachlor	0.90	U
1024-57-3Heptachlor Epoxide	0.90	U
72-43-5Methoxychlor	9.0	U
8001-35-2Toxaphene	90	U
12674-11-2Aroclor-1016	71	U
11104-28-2Aroclor-1221	92	ប
11141-16-5Aroclor-1232	71	U
53469-21-9Aroclor-1242	49	υ
12672-29-6Aroclor-1248	49	U
11097-69-1Aroclor-1254	49	U
11096-82-5Aroclor-1260	71	Ū
53494-70-5Endrin Ketone	9.0	Ū
5103-74-2gamma-Chlordane	0.90	บั
5103-71-9alpha-Chlordane	1.8	Ū
	1	~

SSMW07-0 Lab Name: COMPUCHEM Contract: 8081A-8082 Lab Code: COMPU Case No.: SAS No.: SDG No.: Q2812 Matrix: (soil/water) SOIL Lab Sample ID: 02812-1 Sample wt/vol: 30.0 (g/mL) GLab File ID: % Moisture: 5 decanted: (Y/N) N Date Received: 12/04/02 Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/04/02 Concentrated Extract Volume: 5000(uL) Date Analyzed: 12/09/02 Injection Volume: 2.0(uL) Dilution Factor: 1.0 GPC Cleanup: (Y/N) N рH: ____ Sulfur Cleanup: (Y/N) N CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG 0 309-00-2-----Aldrin 0.87 U 319-84-6-----alpha-BHC 0.87 U 319-85-7-----beta-BHC 1.8 U 0.87 U 319-86-8-----delta-BHC 58-89-9-----gamma-BHC (Lindane) 0.87 U 3.5 U 72-55-9-----4,4'-DDE 1.8 U 50-29-3-----4,4'-DDT 4.3 J 60-57-1-----Dieldrin 1.8 U 959-98-8-----Endosulfan I 1.8 U 33213-65-9----Endosulfan I \overline{I} 3.5 U 1031-07-8-----Endosulfan sulfate 3.5 U 72-20-8-----Endrin 3.5 U 7421-93-4----Endrin Aldehyde 3.5 U 76-44-8------Heptachlor Epoxide 0.87 U 0.87 U 72-43-5-----Methoxychlor 8.7 U 8001-35-2----Toxaphene 87 U 12674-11-2----Aroclor-1016 68 U 11104-28-2----Aroclor-1221

11141-16-5-----Aroclor-1232

53469-21-9-----Aroclor-1242

12672-29-6-----Aroclor-1248

11097-69-1-----Aroclor-1254

11096-82-5----Aroclor-1260

53494-70-5----Endrin Ketone

5103-74-2----gamma-Chlordane

5103-71-9-----alpha-Chlordane

89 U

68 U

47 U

47 U

47 U

68 U

8.7 U

0.87 | Ū

1.8 U

SSMW08-0 Lab Name: COMPUCHEM Contract: 8081A-8082

Lab Code: COMPU Case No.: SAS No.: SDG No.: Q2812

Matrix: (soil/water) SOIL Lab Sample ID: Q2812-4

Lab File ID: Sample wt/vol: 30.0 (g/mL) G

% Moisture: 6 decanted: (Y/N) N Date Received: 12/04/02

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/04/02

Concentrated Extract Volume: 5000(uL) Date Analyzed: 12/20/02

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: COMPOUND (ug/L or ug/Kg) UG/KG CAS NO. Q

309-00-2----Aldrin 0.88 U 319-84-6----alpha-BHC 0.88 U 319-85-7-----beta-BHC 1.8 U 319-86-8-----delta-BHC 0.88 U 58-89-9-----gamma-BHC (Lindane) 0.88 U 72-54-8------4,4'-DDD 72-55-9-----4,4'-DDE 3.5 U 1.8 U 50-29-3-----4,4'-DDT 5.3 U 60-57-1-----Dieldrin 27 EP 3 959-98-8-----Endosulfan I 1.8 U 33213-65-9----Endosulfan II T 18 P 1031-07-8-----Endosulfan sulfate 3.5 U 72-20-8-----Endrin 3.5 U 7421-93-4----Endrin Aldehyde 3.5 U 76-44-8-----Heptachlor 0.88 U 1024-57-3-----Heptachlor Epoxide 0.88 U 72-43-5-----Methoxychlor 8.8 U 8001-35-2----Toxaphene 88 U 12674-11-2-----Aroclor- $1\overline{016}$ 69 U 11104-28-2----Aroclor-1221 90 | U 11141-16-5----Aroclor-1232 69 U 53469-21-9----Aroclor-1242 48 U 12672-29-6----Aroclor-1248 48 U 11097-69-1-----Aroclor-1254 48 U 11096-82-5-----Aroclor-1260 69 U 53494-70-5-----Endrin Ketone 52 T 5103-74-2----gamma-Chlordane 0.88 U

5103-71-9-----alpha-Chlordane

1.8 U

EPA SAMPLE NO.

Lab Code: COMPUCHEM

Contract: 8081A-8082

SSMW07-4

Contract: 8081A-8082

Lab Code: COMPU

Case No.: SDG No.: Q2812

Matrix: (soil/water) SOIL Lab Sample ID: Q2812-3

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 20 decanted: (Y/N) N Date Received: 12/04/02

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/04/02

Concentrated Extract Volume: 5000(uL) Date Analyzed: 12/10/02

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

309-00-2Aldrin 319-84-6alpha-BHC 319-85-7beta-BHC 319-86-8delta-BHC 58-89-9gamma-BHC (Lindane) 72-54-84,4'-DDD 72-55-94,4'-DDT 60-57-1Dieldrin 959-98-8Endosulfan I 33213-65-9Endosulfan II 1031-07-8Endosulfan sulfate 72-20-8Endrin 7421-93-4Endrin Aldehyde 76-44-8Endrin Aldehyde 76-44-8	1.0 2.1 1.0 1.0 4.1 2.1 6.3 2.1 2.1 4.1 4.1 4.1 4.1 1.0 1.0	<u>ה</u> ממממממממממממממממממממממממממממממממממממ
72-55-94,4'-DDE	_	•
60-57-1Dieldrin	2.1	Ū
	_ 1	_
	_	_
7421-93-4Endrin Aldehyde	4.1	Ū
	_ 10	U .
12674-11-2Aroclor-1016	81	Ū
11104-28-2Aroclor-1221 11141-16-5Aroclor-1232	- 110 81	U
53469-21-9Aroclor-1242 12672-29-6Aroclor-1248		U U
11097-69-1Aroclor-1254	56	Ū
11096-82-5Aroclor-1260 53494-70-5Endrin Ketone	$-\begin{vmatrix} 21\\10 \end{vmatrix}$	J U
5103-74-2gamma-Chlordane 5103-71-9alpha-Chlordane	1.0	U U
5105-71-5aipha-chiordane	- 2.1	U

SSMW08-4

Lab Name: COMPUCHEM

Contract: 8081A-8082

Lab Code: COMPU

Case No.:

SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: Q2812-6

Sample wt/vol:

30.0 (g/mL) G

Lab File ID:

% Moisture: 12

decanted: (Y/N) N

Date Received: 12/04/02

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted:12/04/02

Concentrated Extract Volume: 5000(uL)

Injection Volume:

2.0(uL)

Date Analyzed: 12/20/02 Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: ____

Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q

			_
309-00-2Aldrin	0.94		
319-84-6alpha-BHC		~	
319-85-7beta-BHC	0.94	1	
319-86-8delta-BHC	1.9		
58-89-9gamma-BHC (Lindane)	0.94		
72-54-84,4'-DDD	4.3	ال	
72-55-94,4'-DDE	1.9	u —	_
50-29-34,4'-DDT			
60-57-1Dieldrin	5.7		_
959-98-8Endosulfan I	16 1.9	EP T	J
33213-65-9Endosulfan II	3.8	_	
1031-07-8Endosulfan sulfate	3.8	טו	
72-20-8Endrin	3.8	υ	
7421-93-4Endrin Aldehyde	3.8	IJ	
76-44-8Heptachlor	0.94	บ็	
1024-57-3Heptachlor Epoxide	0.94	บี	
72-43-5Methoxychlor	9.4	_	
8001-35-2Toxaphene	94	Ü	
12674-11-2Aroclor-1016	74	Ŭ	
11104-28-2Aroclor-1221	97	U	
11141-16-5Aroclor-1232	74	Ü	
53469-21-9Aroclor-1242	51	Ü	
12672-29-6Aroclor-1248	51	Ū	
11097-69-1Aroclor-1254	51	Ü	
11096-82-5Aroclor-1260	74	Ŭ	
53494-70-5Endrin Ketone	5.5		_
5103-74-2gamma-Chlordane		Ū	
5103-71-9alpha-Chlordane	1.9	Ŭ	
		-	
			_

SSMW08-1 Lab Name: COMPUCHEM Contract: 8081A-8082 Lab Code: COMPU Case No.: SAS No.: SDG No.: 02812 Matrix: (soil/water) SOIL Lab Sample ID: 02812-5 Sample wt/vol: 30.0 (g/mL) GLab File ID: % Moisture: 13 decanted: (Y/N) N Date Received: 12/04/02 Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/04/02 Concentrated Extract Volume: 5000(uL) Date Analyzed: 12/20/02 Injection Volume: 2.0(uL) Dilution Factor: 1.0 GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q 309-00-2-----Aldrin 0.98 P 319-84-6----alpha-BHC 0.95 U 319-85-7-----beta-BHC 2.0 U $319-86-8------delta-BH\overline{C}$ 0.95 U 58-89-9-----gamma-BHC (Lindane) 0.95 U 3.8 U 72-55-9-----4,4'-DDE 2.0 U 50-29-3-----4,4'-DDT_ 5.7 U 60-57-1-----Dieldrin 2.0 0 959-98-8-----Endosulfan I 2.0 U 33213-65-9----Endosulfan IT 3.8 U 1031-07-8-----Endosulfan sulfate 3.8 U 72-20-8-----Endrin 3.8 U 7421-93-4-----Endrin Aldehyde 3.8 U 76-44-8------Heptachlor
1024-57-3-----Heptachlor Epoxide 0.95 U 0.95 U 9.5 U 95 U 75 U 72-43-5-----Methoxychlor 8001-35-2-----Toxaphene 12674-11-2----Aroclor-1016 11104-28-2----Aroclor-1221 98 U 11141-16-5----Aroclor-1232 75 U 53469-21-9----Aroclor-1242 52 U 12672-29-6-----Aroclor-1248 52 U 11097-69-1-----Aroclor-1254 52 U 11096-82-5-----Aroclor-1260 75 U 53494-70-5----Endrin Ketone 9.5 U 5103-74-2----gamma-Chlordane 0.95 U 5103-71-9-----alpha-Chlordane

2.00

Lab Name: COMPUCHEM Contract: 8081A-8082 SSMW10-4

Lab Code: COMPU Case No.: SAS No.: SDG No.: Q2812

Matrix: (soil/water) SOIL Lab Sample ID: Q2812-12

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 13 decanted: (Y/N) N Date Received: 12/04/02

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/04/02

Concentrated Extract Volume: 5000(uL) Date Analyzed: 12/12/02

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

	 	
309-00-2Aldrin	0.95	TT
319-84-6alpha-BHC	0.95	_
319-85-7beta-BHC	2.0	_
319-86-8delta-BHC	0.95	-
58-89-9gamma-BHC (Lindane)	0.95	
72-54-84,4'-DDD	3.8	
72-55-94,4'-DDE	2.0	
50-29-34,4'-DDT		JP J
60-57-1Dieldrin	1	ָּע ז [ָ] ט
959-98-8Endosulfan I		U
33213-65-9Endosulfan II	3.8	
1031-07-8Endosulfan sulfate		U
72-20-8Endrin	3.8	-
7421-93-4Endrin Aldehyde	3.8	_
76-44-8Heptachlor	0.95	
1024-57-3Heptachlor Epoxide	0.95	
72-43-5Methoxychlor	9.5	
8001-35-2Toxaphene	95	
12674-11-2Aroclor-1016	75	_
11104-28-2Aroclor-1221	98	-
11141-16-5Aroclor-1232	75	
53469-21-9Aroclor-1242		U
12672-29-6Aroclor-1248		U
11097-69-1Aroclor-1254	52	
11096-82-5Aroclor-1260	75	
53494-70-5Endrin Ketone	9.5	
5103-74-2gamma-Chlordane	0.95	
5103-71-9alpha-Chlordane	1	Ŭ
• • • • • • • • • • • • • • • • • • • •	2.0	Ų
	 _	

3/250

Lab Name: COMPUCHEM Contract: 8081A-8082 SSMW10-0

Lab Code: COMPU Case No.: SAS No.: SDG No.: Q2812

Matrix: (soil/water) SOIL Lab Sample ID: Q2812-11

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 11 decanted: (Y/N) N Date Received: 12/04/02

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/04/02

Concentrated Extract Volume: 5000(uL) Date Analyzed: 12/12/02

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

		~
309-00-2Aldrin	0.93	II
319-84-6alpha-BHC	0.93	
319-85-7beta-BHC	1.9	
319-86-8delta-BHC	0.93	
58-89-9gamma-BHC (Lindane)	0.93	_
72-54-84,4'-DDD	3.7	
72-55-94,4'-DDE	1.9	
50-29-34,4'-DDT	5.6	
60-57-1Dieldrin	1.9	
959-98-8Endosulfan I	1.9	
33213-65-9Endosulfan II	3.7	11
1031-07-8Endosulfan sulfate	3.7	TT
72-20-8Endrin	3.7	
7421-93-4Endrin Aldehyde	3.7	
76-44-8Heptachlor	0.93	
1024-57-3Heptachlor Epoxide	0.93	
72-43-5Methoxychlor	9.3	
8001-35-2Toxaphene	93	-
12674-11-2Aroclor-1016	73	
11104-28-2Aroclor-1221	96	
11141-16-5Aroclor-1232	73	
53469-21-9Aroclor-1242		IJ
12672-29-6Aroclor-1248	51	_
11097-69-1Aroclor-1254	51	
11096-82-5Aroclor-1260	73	
53494-70-5Endrin Ketone	9.3	
5103-74-2gamma-Chlordane	0.93	
5103-71-9alpha-Chlordane	1.9	
	1.5	

SSMW11-1 Lab Name: COMPUCHEM Contract: 8081A-8082

Lab Code: COMPU Case No.: SAS No.: SDG No.: Q2812

Matrix: (soil/water) SOIL Lab Sample ID: Q2812-7

Sample wt/vol: 30.0 (g/mL) GLab File ID:

% Moisture: 4 decanted: (Y/N) N Date Received: 12/04/02

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/04/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/20/02

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

			1
309-00-2	Aldrin	0.86	TT
319-84-6	alpha-BHC	<u> </u>	_
319-85-7	beta-BHC	- 1.8	
319-86-8		— 0.86	1 -
58-89-9	gamma-BHC (Lindane)	0.86	
72-54-8	4,4'-DDD	—	
72-55-9		— 0.98	_
50-29-3	4,4'-DDT	— 0.56 1.4	ľ
60-57-1	Dieldrin	- l 1.8	1 -
	Endosulfan I		
	Endosulfan IĪ	3.4	
1031-07-8	Endosulfan sulfate	3.4	
72-20-8	Endrin	3.4	
7421-93-4	Endrin Aldehyde	3.4	
76-44-8	Heptachlor	0.86	
1024-57-3	Heptachlor Epoxide	- 0.86	1
72-43-5	Methoxychlor	8.6	1 -
8001-35-2	Toxaphene		U
12674-11-2	Aroclor-1016	86 68	Ü
11104-28-2	Aroclor-1221		1 -
	Aroclor-1232	89	ū
	Aroclor-1242	_ 68	Ū
	Aroclor-1248	47	Ū
11097-69-1	Aroclor-1254	47	ū
11096-82-5	Aroclor-1260	47	ŭ
53494-70-5	Endrin Ketone	68	ū
	gamma-Chlordane	8.6	1 -
5103-71-9	alpha-Chlordane	0.86	U
0100 11 0	arpha chrotdalle	1.8	Ū
		1	l

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

SSMW10D-4 Contract: 8081A-8082

Lab Name: COMPUCHEM

SDG No.: Q2812 SAS No.: Lab Code: COMPU Case No.:

Lab Sample ID: Q2812-13 Matrix: (soil/water) SOIL

Lab File ID: 30.0 (g/mL) G Sample wt/vol:

Date Received: 12/04/02 decanted: (Y/N) N % Moisture: 15

Date Extracted:12/04/02 Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 12/12/02 Concentrated Extract Volume: 5000 (uL)

Dilution Factor: 1.0 Injection Volume: 2.0(uL)

Sulfur Cleanup: (Y/N) Y GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q COMPOUND CAS NO.

Lab Name: COMPUCHEM Contract: 8081A-8082 SSMW11D-1

Lab Code: COMPU Case No.: SAS No.: SDG No.: Q2812

Matrix: (soil/water) SOIL Lab Sample ID: Q2812-9

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 3 decanted: (Y/N) N Date Received: 12/04/02

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/04/02

Concentrated Extract Volume: 5000(uL) Date Analyzed: 12/10/02

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

1			
309-00-2Aldrin	0.86	IJ	_
319-84-6alpha-BHC	0.86		
319-85-7beta-BHC	1.8	_	
319-86-8delta-BHC	0.86	-	
58-89-9gamma-BHC (Lindane)	0.86		
72-54-8	3.4		
72-55-94,4'-DDE	1.6		
50-29-34,4'-DDT	1.7		1
60-57-1Dieldrin	1.8		
959-98-8Endosulfan I	1.8		
33213-65-9Endosulfan II	3.4	U	
1031-07-8Endosulfan sulfate	3.4		
72-20-8Endrin	3.4		
7421-93-4Endrin Aldehyde	3.4		
76-44-8Heptachlor	0.86		
1024-57-3Heptachlor Epoxide	0.86		
72-43-5Methoxychlor	8.6		
8001-35-2Toxaphene	86		
12674-11-2Aroclor-1016	67	U	
11104-28-2Aroclor-1221	88	U	
11141-16-5Aroclor-1232	67	U	
53469-21-9Aroclor-1242	46	Ū	
12672-29-6 - Aroclor-1248	46	Ü	
11097-69-1Aroclor-1254	46	Ū	
11096-82-5Aroclor-1260	67		
53494-70-5Endrin Ketone	8.6		
5103-74-2gamma-Chlordane	0.86		
5103-71-9alpha-Chlordane	1.8	U	

3/25/07

1D GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

Lab Name: COMPUCHEM Contract: 8081A-8082 SSMW11-4

Lab Code: COMPU Case No.: SAS No.: SDG No.: Q2812

Matrix: (soil/water) SOIL Lab Sample ID: Q2812-8

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 15 decanted: (Y/N) N Date Received: 12/04/02

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/04/02

Concentrated Extract Volume: 5000(uL) Date Analyzed: 12/10/02

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO. COMPOUND COMP

309-00-2Aldrin	0.98	7.7
319-84-6alpha-BHC	0.98	_
319-85-7beta-BHC	2.0	1
319-86-8delta-BHC	0.98	
58-89-9qamma-BHC (Lindane)	0.98	
72-54-84,4'-DDD	3.9)
72-55-94,4'-DDE	2.0	Ü
50-29-34,4'-DDT	5.9	
60-57-1Dieldrin	2.0	
959-98-8Endosulfan I	2.0	
33213-65-9Endosulfan II	2.0 3.9	U
1031-07-8Endosulfan sulfate	3.9	U
72-20-8Endrin	3.9	
7421-93-4Endrin Aldehyde	3.9	Ū
76-44-8Heptachlor	3.9	
1024-57-3Heptachlor Epoxide	0.98	,
72-43-5Methoxychlor	0.98	_
8001-35-2Toxaphene	9.8	Ū
12674-11-2Aroclor-1016	98	U
11104-28-2Aroclor-1221	76	
	100	
11141-16-5Aroclor-1232	, -	
53469-21-9Aroclor-1242	53	U
12672-29-6Aroclor-1248	53	U
11097-69-1Aroclor-1254	53	Ų
11096-82-5Aroclor-1260	76	U
53494-70-5Endrin Ketone	9.8	_
5103-74-2gamma-Chlordane	0.98	U
5103-71-9alpha-Chlordane	2.0	U

Lab Name: CO	NOTICE THE	n.	3 - 1 -			ſ		SSMW07-0
	MPUCHE BRTY	Case No	Contra .: SA	S No.:		SDG N	o.:	Q2812
Matrix (soil/w		- SOIL		Lab Sample ID:		Q2812		
Level (low/med		LOW		Date Received:		-		
	., .	104		Date Received:	i	12/04	1/02	
% Solids: 94	1.7	_						
		Concentra	ation Units (ug/L o	or mg/kg dry weigh	it):		MG/	KG_
		CAS No.	Analyte	Concentration	С	Q	М	
		7429-90-5	Aluminum	1200	+-	1	P	4-
		7440-36-0	Antimony		В	i	P	12
		7440-38-2	Arsenic		B	i	l P	<u> </u>
		7440-39-3	Barium	5.3	Ť	i	, P	<u> </u>
		7440-41-7	Beryllium		В	i	l P	İВ
		7440-43-9	Cadmium	0.04	U	Ī	P	<u>.</u>
		7440-70-2	Calcium	247	Ī	İ	P	Ī
		7440-47-3	Chromium	4.2		1	P	Ī
		7440-48-4	Cobalt	0.80		1	P	Ī
		7440-50-8	Copper	6.3		1	P	Ī K
		7439-89-6	Iron	2070	1	1	P	$\bar{1}^{\ell}$
		7439-92-1	Lead	21.2	Π	N	P	ĪL
		7439-95-4	Magnesium	151	Π	E	P	<u> </u>
		7439-96-5	Manganese	13.3			P	Ī
		7439-97-6	Mercury	0.035	1		CV	Ī
		7440-02-0	Nickel	0.73			P	Ī
		7440-09-7	Potassium	169		ĺ	P	ĪB
		7782-49-2	Selenium	0.32	U	Ī	P	Īu-
		7440-22-4	Silver	0.07	U	1	P	1
		7440-23-5	Sodium	133	В		P	ĬĹ
		7440-28-0	Thallium	0.49	Ŭ	N	P	Tul
		7440-62-2	Vanadium	3.9			P	1
		7440-66-6	Zinc	81.8		E	P	İ t
								3/25/03
Color Before	: BRO	WN	Clarity Before:		Te	exture:	1	MEDIUM
Color After:	YEL	LOW	Clarity After:		Aı	tifact	s: -	
Comments:							$\widehat{}$	
								

SSMW11D-4

SDG No.: Q2812

Lab Name: COMPUCHEM Contract: 8081A-8082

Lab Code: COMPU

Case No.:

Matrix: (soil/water) SOIL Lab Sample ID: Q2812-10

SAS No.:

Sample wt/vol: 30.0 (g/mL) GLab File ID:

% Moisture: 14 decanted: (Y/N) N Date Received: 12/04/02

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/04/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/20/02

Injection Volume: Dilution Factor: 1.0 2.0(uL)

GPC Cleanup: (Y/N) N Sulfur Cleanup: (Y/N) Y pH: ____

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG COMPOUND CAS NO. Q

		
309-00-2Aldrin 319-84-6	0.88 2.0 1.3 2.0	00000000000000000000000000000000000000
33213-65-9Endosulfan II 1031-07-8Endosulfan sulfate 72-20-8Endrin 7421-93-4Endrin Aldehyde 76-44-8	2.0 3.8 3.8 3.8 0.97 0.97 9.7 97 76	ממככממטמסט
12672-29-6Aroclor-1248 11097-69-1Aroclor-1254 11096-82-5Aroclor-1260 53494-70-5Endrin Ketone 5103-74-2gamma-Chlordane 5103-71-9alpha-Chlordane	52 52 76 9.7	U U

Lab Name: COME	PUCHEM	Contra	ict:				SSMW	07-4
Lab Code: LIBE		o.: SA	S No.:		SDG No	· :	Q2812	
Matrix (soil/wat	er): SOIL		Lab Sample ID:	:	Q2812	-3		
Level (low/med):	LOW		Date Received:	:	12/04			_
% Solids: 79.7	,							
-	Concenti	ration Units (ug/L o	or mg/kg dry weigh	nt):		MG/	KG	
	CAS No.	Analyte	Concentration	С	Q	м		
	7429-90-5	Aluminum	163	1		P	1	
	7440-36-0	Antimony	0.57	В		P	B	
	7440-38-2	Arsenic	0.31	0		P	i	
	7440-39-3	Barium		B		P	Ī	
	7440-41-7	Beryllium	0.01	ן טן		P	Ī	
	7440-43-9	Cadmium	0.05	U		P	j	
	7440-70-2	Calcium	41.5	B		P	18	
	7440-47-3	Chromium	1.9			P	1	
	7440-48-4	Cobalt	0.08	В		P	1	
	7440-50-8	Copper	0.28	В		P	<u>]</u>	
	7439-89-6	Iron	715			P]	
	7439-92-1	Lead	1.5		N	P] [_	÷
	7439-95-4	Magnesium	30.0	В	E	P	Įβ	
	7439-96-5	Manganese	3.7			P	1	
	7439-97-6	Mercury	:	ן ט		cv	1	
	7440-02-0	Nickel		В		P		
	7440-09-7	Potassium	 	В		P	ĬΒ	
	7782-49-2	Selenium	•	U		P	IUL	
	7440-22-4	Silver	}	ן ט		P	<u> </u>	
	7440-23-5	Sodium		В		P	İЖ۲	
	7440-28-0	Thallium		<u> </u>	N	P	lul	
	7440-62-2	Vanadium	:	B		P		
	7440-66-6	Zinc	3.6	:	E	P	J B	
								3/25/3
Color Before:	BROWN	Clarity Before:		Tex	cture:	1	MEDIUM	
Color After:	AETTOM	Clarity After:		Art	ifacts	3:	· · · · · · · · · · · · · · · · · · ·	
Comments:			<u> </u>					
_								
_								

Lab Name:	СОМРИСН	ŒM	Contra	ict:				SSMW07-1
Lab Code:	LIBRTY	Case No	.: SA	S No.:		SDG N	10.:	Q2812
Matrix (soi	.1/water):	SOIL		Lab Sample ID:		Q281	2-2	
Level (low/	med):	LOW		Date Received:		12/0		
% Solids:	92.5							
	33.4	— Concentra	ation Units (ug/L c	or mg/kg dry weigh	t):		MG/I	KG
		CAS No.	Analyte	Concentration	С	Q	м	
		7429-90-5	Aluminum	292			P.	I K
		7440-36-0	Antimony	0.77	В		P	is
		7440-38-2	Arsenic	0.25	U		P	
		7440-39-3	Barium	2.2			P	j ,
		7440-41-7	Beryllium	0.02	В		P	jB
		7440-43-9	Cadmium	 	U	<u> </u>	P	<u> </u>
		7440-70-2	Calcium	- 	В		P	<u> </u>
		7440-47-3	Chromium	4.6			P	
		7440-48-4	Cobalt		В	<u> </u>	P	[i
		7440-50-8	Copper	2.6		<u> </u>	P	!*
		7439-89-6	Iron	1190		<u> </u>	P	1 1
		7439-92-1	Lead	9.6		N	P	 - -
		7439-95-4	Magnesium		В	E	P	T
		7439-97-6	Manganese Mercury	8.8	В	<u> </u> 	CV	<u>.</u> 1
		7440-02-0	Nickel		В	<u> </u>	P	<u> </u>
		7440-09-7	Potassium	<u> </u>	В	<u> </u> 	P	is
		7782-49-2	Selenium	<u> </u>	บ	<u>'</u>	P	iuL
		7440-22-4	Silver	- ' - 	U	<u>. </u>	P	1
		7440-23-5	Sodium	<u> </u>	В	<u>'</u>	P	<u>.</u> 1_
		7440-28-0	Thallium			N		lul
		7440-62-2	Vanadium	1.2	В		P	: 0(~
		7440-66-6	Zinc	16.5		E	P	it ,
								3/25/13
Color Be	fore: GF	REY	Clarity Before:		Te	xture	: 1	MEDIUM
Color Aft	ter: YE	LLOW	Clarity After:		AI	tifac	ts:	
Comments	: 							

مل Name:	COMPUCH	EM	Contra	ct:				SSMW08-1
Lab Code:	LIBRTY	Case No	.: SAS	5 No.:		SDG 1	No.:	Q2812
(atrix (soi	11/water):	SOIL		Lab Sample ID	:	<u>Q</u> 281	2-5	
Level (low/	med):	LOW		Date Received	;		4/02	
t Solids:	87.3							············
		Concentr	ation Units (ug/L o	r mg/kg dry weigh	nt):		MG/I	KG_
		CAS No.	Analyte	Concentration	С	Q	м	
		7429-90-5	Aluminum	236	1		P.	it K
		7440-36-0	Antimony	0.40	U		P	Ī
		7440-38-2	Arsenic	0.27	U	Ì	P	Ī
		7440-39-3	Barium	1.2	Ī	1	P	Ī
		7440-41-7	Beryllium	0.01	U	İ	P	Ī
		7440-43-9	Cadmium	0.04	บ	1	P	
		7440-70-2	Calcium	38.6	В	Ī	P	Ī
		7440-47-3	Chromium	2.6	1	1	P	Ì
		7440-48-4	Cobalt	0.07	В	1	P	Ì
		7440-50-8	Copper	0.15	U		P	luc
		7439-89-6	Iron	952	Ī		P	
		7439-92-1	Lead	0.65		N	P	Ĺ
ş.i		7439-95-4	Magnesium	36.5	В	E	P	B
		7439-96-5	Manganese	4.1	i	<u> </u>	P	: · [
		7439-97-6	Mercury	0.017	<u>יין</u>	Ī	CV	
		7440-02-0	Nickel	0.19	В		P	
		7440-09-7	Potassium	56.5	В		P	B
		7782-49-2	Selenium	0.35	Ū	i	P	uL
		7440-22-4	Silver		Jυ	<u> </u>	P	
		7440-23-5	Sodium		В		P	L_ ·
		7440-28-0	Thallium	0.55	Ü	N	P	uL
		7440-62-2	Vanadium		В	<u> </u>	P	
		7440-66-6	Zinc	1.1	В	E	P	73
								3/25/28
Color Bef	ore: BR	OWN	Clarity Before:		Te	xture	: <u>}</u>	ÆDIUM
Color Aft	er: YE	LLOW	Clarity After:		Ar	tifac	ts:	
Comments:								
								·—— ——

.ab Name: CO	MOLICITE	n.4	04	•		ĺ		SSM	W08-0
3.3	MPUCHE		Contra			[!]		/	
Lab Code: LI	BRTY	Case No	SAS	No.:		SDG N	lo . :	Q2812	
Matrix (soil/wa	ater):	SOIL		Lab Sample ID:	:	Q2812	2-4		
evel (low/mad)):	LOW	-	Date Received:	:	12/04			
t Solids: 94	•							-	
Solids: 94	.0	-							
		Concentr	ation Units (ug/L o	r mg/kg dry weigh	it):		MG/	KG	
		CAS No.	Analyte	Concentration	С	Q	м		
		7429-90-5	Aluminum	6930			P.	14-	
		7440-36-0	Antimony	0.51	В	İ	P	16	
		7440-38-2	Arsenic	1.0	В	1	P	Ĩ.	
		7440-39-3	Barium	15.8	Ī		P	Ī	
		7440-41-7	Beryllium	0.11	В	1	P	J	
		7440-43-9	Cadmium	0.04	טן		P	<u> </u>	
		7440-70-2	Calcium	574	<u> </u>		P	1	
		7440-47-3	Chromium	9.8	<u> </u>	<u> </u>	P	<u> </u>	
		7440-48-4	Cobalt	0.93	<u> </u>	<u> </u>	P]	
		7440-50-8	Copper	1.3		<u> </u>	P	ĺγ –	
		7439-89-6	Iron	10100	<u> </u>	<u> </u>	P	1	
		7439-92-1	Lead	6.3	<u> </u>	N	P	ŢĹ	
		7439-95-4	Magnesium	504	<u> </u>	E	P	12	
		7439-96-5	Manganese	69.1			P	1	
		7439-97-6	Mercury	0.034		<u> </u>	cv	<u> </u>	
		7440-02-0	Nickel	3.7		<u> </u>	P	<u> </u>	
		7440-09-7	Potassium	494			P	1	
		7782-49-2	Selenium	0.69		<u> </u>	P	ļL	
		7440-22-4	Silver	:	ן ט	<u> </u>	P	1	
		7440-23-5	Sodium		В		P	ال	
		7440-28-0	Thallium		ט	И	P	luL	
		7440-62-2	Vanadium	17.6			P	<u> </u>	
		7440-66-6	Zinc	10.6		E	P	12	
									3/25/23
Color Before:	BRO	WN	Clarity Before:		Te	xture:	: (COARSE	
Color After:	YEL	LOW	Clarity After:		Ar	tifact	:s: .	···	
Comments:									

	0) T					Γ		SS-MW09-0
_	OMPUCHE IBRTY	M Case No	Contra	ct: No.:		<u></u>		02812
_		- Case No	SAS			SDG No	o.:	Q2812
fatrix (soil/	water):	SOIL		Lab Sample ID:	:	Q2812	-14	
evel (low/me	d) :	LOW		Date Received:	:	12/11	/02	
& Solids: 9	1.6							
-		Concentr	ation Units (ug/L or	mg/kg dry weigh	it):		MG/	KG
		CAS No.	Analyte	Concentration	c	Q	м	
		7429-90-5	Aluminum	889	\vdash		P	
		7440-36-0	Antimony		В		P	ĺβ
		7440-38-2	Arsenic		В		P	<u>.</u>
		7440-39-3	Barium	8.3	i i		P	<u>:</u> [
		7440-41-7	Beryllium		В		P	j
		7440-43-9	Cadmium	0.04	ן טן		P	<u>.</u>
		7440-70-2	Calcium	3060	1 [P	Ī
		7440-47-3	Chromium	2.7			P	1
		7440-48-4	Cobalt	0.71	1 1		P	
		7440-50-8	Copper	0.15	ן ט		P	JUL
		7439-89-6	Iron	2390			P	
		7439-92-1	Lead	8.3	<u> </u>	N	P	ĪL
		7439-95-4	Magnesium	265	[]:	E	P	ĪT
	ļ	7439-96-5	Manganese	33.7	1 1		P	Ī
		7439-97-6	Mercury	0.020	B		cv]
		7440-02-0	Nickel	1.4			P	_
	* [7440-09-7	Potassium	274	Π		P	Ī
		7782-49-2	Selenium	0.35	ן ט		P	IUL
		7440-22-4	Silver	0.07	ן ט		P	Ī
	į	7440-23-5	Sodium	84.5	В		P	j L
	ļ	7440-28-0	Thallitm	0.54	[] U	N	P	IUL .
	ļ	7440-62-2	Vanadium	4.1			P	
	į	7440-66-6	Zinc	11.0	1	E	P	
								3/23/2
Color Before	: BROV	7 N	Clarity Before:		Tex	ture:	ì	MEDIUM
Color After:	YELI	OM	Clarity After:		Art	ifact	s: _	
Comments:								

Lab Name: COM	PUCHEM	Contra	ict:		SSMW08-4
	RTY Case N	· · · · · · · · · · · · · · · · · · ·	S No.:		To.: Q2812
fatrix (soil/wa	ter): SOIL		Lab Sample ID:	Q281:	2-6
					
Level (low/med)	: LOW		Date Received:	12/0	4/02
} Solids: 87.	7				
	Concent	ration Units (ug/L o	or mg/kg dry weight):	MG/KG
	CAS No.	Analyte	Concentration	C Q	м
	7429-90-5	Aluminum	328		P
	7440-36-0	Antimony	0.41	J	P
	7440-38-2	Arsenic	0.28	J	P
	7440-39-3	Barium	2.0	i	P
	7440-41-7	Beryllium	0.01	J	P
	7440-43-9	Cadmium	0.04	<u> </u>	P
	7440-70-2	Calcium	78.5 JE	3	P
	7440-47-3	Chromium	5.0	i	P
	7440-48-4	Cobalt	0.15 E	3	P
	7440-50-8	Copper	0.16	J	PUL
	7439-89-6	Iron	1250	T	P
	7439-92-1	Lead	0.84	N	P
	7439-95-4	Magnesium	69.4 F	3 E	IP J
	7439-96-5	Manganese	8.2	1	P
	7439-97-6	Mercury	0.017	7	CV
	7440-02-0	Nickel	0.45 E	3	P
	7440-09-7	Potassium	102 E	3	IPIB
	7782-49-2	Selenium	0.37	J	PUL
	7440-22-4	Silver	0.08	J	P
	7440-23-5	Sodium	61.1 E	3	PL
	7440-28-0	Thallium	0.57	N	PUL
	7440-62-2	Vanadium	1.9 E	3	P
	7440-66-6	Zinc	2.3	E	TPIZB
	-				3/15/2
Color Before:	BROWN	Clarity Before:		Texture	: MEDIUM
Color After:	AETTOM	Clarity After:		Artifact	
Comments:					

EPA SAMPLE NO.

عد Name: CON	PUCHEM		Contra	ct:				ss-	MW09-4	
		ase No.:	SAS	No.:		SDG No	. :	Q2812	2	
fatrix (soil/wa	ter): SOI:	L		Lab Sample ID:	-	Q2812-	-16			
Level (low/med)	: LOW			Date Received:		12/11,				
8 Solids: 91.	1									
<u></u>	Con	ncentratio	on Units (ug/L o	r mg/kg dry weigh	nt):		MG/I	KG		
	CAS	No.	Analyte	Concentration	С	Q	M			
	7429-	90-5	Aluminum	284	1		P.	H		
	7440-	36~0	Antimony	0.40	ן ט		P	İ		
	7440-	38-2	Arsenic	0.27	ן טן		P	ĺ		
	7440-	39-3	Barium	2.6	1 1		P	ĺ		
	7440-	41-7	Beryllium	0.02	В		P	İβ		
	7440-	43-9	Cadmium	0.04	ן טן		P			
	7440-	70-2	Calcium	97.3	В		P	İ		
	7440-	47-3	Chromium	4.8			P			
	7440-		Cobalt	0.25	B		P			
	7440-		Copper	0.30	B		₽	L		
	7439-		Iron	1380	<u> </u>		P			
	7439-		Lead	2.1	1	1	P	<u>L</u>		
	7439-		Magnesium		B	<u> </u>	P	7		
	7439-		Manganese	11.6			P			
	7439-		Mercury	0.018	ا ما	<u>1</u>	CV			
	7440-		Nickel	0.66		1	P	_		
	7440-		Potassium		В		P	B		
	7782-		Selenium		ן ט		P	UL		
	7440-		Silver		ן ט		P			
	7440-	<u>_</u>	Sodium	· · · · · · · · · · · · · · · · · · ·	В		P	L		
	7440-2	!	Thallium		[U]	1	P	Ш		
	7440-		Vanadium		B		P	_		
	7440-	66-6	Zinc	5.4		<u> </u>	P	7		
									3/25/2	/
Color Before:	BROWN	Cla	rity Before:		Tex	ture:	M	EDIUM		
Color After:	YELLOW	Cla	rity After:	·	Art	ifacts	: _	-		
Comments:					 					

Form I - IN

ab Name:	COMPUCHE	em	Contra	act:				ss-mw09-1	
Lab Code:	LIBRTY	Case No.		S No.:		SDG No	· · :	Q2812	
fatrix (soi	.l/water):	SOIL		Lab Sample ID:		Q2812	-15		
Level (low/		LOW		Date Received:		12/11			
		<u> </u>		Duce Mecelyeu.		12/11	702		
t Solids:	93.0	_							
		Concentra	tion Units (ug/L o	or mg/kg dry weigh	t):		MG/	KG	
		CAS No.	Analyte	Concentration	С	Q	м]	
		7429-90-5	Aluminum	488			P	TIK .	
		7440-36-0	Antimony	0.50	В		P	IB	
		7440-38-2	Arsenic	0.43	В		P	1	
		7440-39-3	Barium	3.5			P	<u> </u>	
		7440-41-7	Beryllium	0.03	В		P	Īß	
		7440-43-9	Cadmium	0.04	ט		P]	
		7440-70-2	Calcium	261			P	1	
		7440-47-3	Chromium	2.4			P	1	
		7440-48-4	Cobalt		В		P	1	
		7440-50-8	Copper		B		P	<u> </u> _	
		7439-89-6	Iron	1330			P	<u> </u>	
		7439-92-1	Lead	5.4		N	P		
		7439-95-4	Magnesium	· · · · · · · · · · · · · · · · · · ·	B	E	P	<u>1</u> 1	
		7439-96-5	Manganese	13.1	<u> </u>		P	_	
		7439-97-6	Mercury		В		cv	<u> </u>	
		7440-02-0	Nickel	0.62			P] -	
		7440-09-7	Potassium	<u>'</u>	B		P	jβ	
		7782-49-2	Selenium		U		P	Jul	
		7440-22-4	Silver	· · · · · · · · · · · · · · · · · · ·	ן טן	·	P	<u> </u>	
		7440-23-5	Sodium		B		P	1 _	
		7440-28-0	Thallium	:	u	N	P	luL	
		7440-62-2	Vanadium	2.3	<u> </u>		P		
		7440-66-6	Zinc	5.1		E	P	IJ	
								2/25/2	
Color Bef	fore: BRO	OWN (W	Clarity Before:		Te	xture:]	MEDIUM	_
Color Aft	er: YEI	LLOW	Clarity After:		Ar	tifact	s :	<u></u>	_
Comments:									-

امد Name: CON	4PUCHEM	Contra	ct:			ssmw10-4
	RTY Case No		No.:	SDG	No.:	Q2812
fatrix (soil/wa	ter): SOIL		Lab Sample ID:	028	12-12	
evel (low/med)			Date Received:		04/02	
& Solids: 86.	.5					
	Concenti	ration Units (ug/L o	r mg/kg dry weigh	t):	MG/I	KG
	CAS No.	Analyte	Concentration	c Q	м	
	7429-90-5	Aluminum	299		P -	IK-
	7440-36-0	Antimony	0.49	B	P	B
	7440-38-2	Arsenic	0.29	U	P	
	7440-39-3	Barium	2.1		P	ĺ
	7440-41-7	Beryllium	0.01	U	P	İ
	7440-43-9	Cadmium	0.05	ן ט	P	ĺ
	7440-70-2	Calcium	118		P	
	7440-47-3	Chromium	6.3		P	
4	7440-48-4	Cobalt	0.12	B	P	
	7440-50-8	Copper	0.40	В	P	
	7439-89-6	Iron	867	1 1	P	
	7439-92-1	Lead	1.4	N	P	
	7439-95-4	Magnesium	45.5	B E	P	17
	7439-96-5	Manganese	6.6		P	
	7439-97-6	Mercury	0.019	B	cv	
	7440-02-0	Nickel	0.39	В	P	
•	7440-09-7	Potassium	74.2	В	P	B
	7782-49-2	Selenium	0.38	la	P	UL
	7440-22-4	Silver	0.08	la l	P	
	7440-23-5	Sodium	67.0	B	P	L
	7440-28-0	Thallium	0.58	N U	P	UL
	7440-62-2	Vanadium	1.3	В	P	
	7440-66-6	Zinc	6.5	E	P	J
						$\sqrt{1/2}$
Color Before;	BROWN	Clarity Before:		Textu	re: 1	ÆDIUM
Color After:	YELLOW	Clarity After:		Artifa	icts:	
Comments:		·				

ab Name:	COMPUCHE	EM .	Contra	act:				SSMW10-0
Lab Code:	LIBRTY	Case No.:		S No.:		SDG N	o.:	Q2812
fatrix (soi	.l/water):	SOIL		Lab Sample ID:		Q2812	2-11	
evel (low/	med):	FOM	·	Date Received:		12/04		·····
							-,	
& Solids:	89.3	_						
		Concentrati	on Units (ug/L o	or mg/kg dry weigh	t):		MG/	KG
		CAS No.	Analyte	Concentration	c	Q	м	
		7429-90-5	Aluminum	395	 		P	ik-
		7440-36-0	Antimony	0.44	В	i 	P	1B
		7440-38-2	Arsenic	0.42	В	<u> </u>	P	
		7440-39-3	Barium	2.2			P	Ī
		7440-41-7	Beryllium	0.02	В	İ	P	İ %
		7440-43-9	Cadmium	0.04	บ	<u> </u>	P	<u> </u>
		7440-70-2	Calcium	70.1	В		P	
		7440-47-3	Chromium	1.6			P	
		7440-48-4	Cobalt	0.25	В		P	
		7440-50-8	Copper	4.1			P	11/
		7439-89-6	Iron	767		<u> </u>	P	1
		7439-92-1	Lead	5.0		N	P	ĪL
		7439-95-4	Magnesium	50.7	В	E	P	İT
		7439-96-5	Manganese	3.3			P	j
		7439-97-6	Mercury	0.019	В		CV	1
		7440-02-0	Nickel	0.28	В		P	
		7440-09-7	Potassium	96.7	В		P	1B
		7782-49-2	Selenium	0.37	U	<u> </u>	P	<u>i</u> uL
		7440-22-4	Silver	0.08	Ü		P	1
		7440-23-5	Sodium	59.6	В		P	İL
		7440-28-0	Thallium	0.57	U	И	P	Tuc
		7440-62-2	Vanadium	2.0	В		P	
		7440-66-6	Zinc	6.1		E	P	1 <i>785</i>
								Tuc IFBJ 3/2,/17
Color Bef	fore: BRO	OMN C1	arity Before:		Te	xture	:	MEDIUM
Color Aft	er: YEI	LLOW C1	arity After:		Ar	tifac	ts:	
Comments:				· · · · · · · · · · · · · · · · · · ·				

_b Name: <u>CO</u>	мриснем	Contra	ct:			SSMW11-1
	BRTY Case N	o.: \$As	3 No.:	SDG 1	No.:	Q2812
Matrix (soil/wa	ter): SOIL		Lab Sample ID:	<u>Q</u> 281	2-7	
Level (low/med)	: LOW		Date Received:	<u> </u>	4/02	
& Solids: 96	. 4			<u> </u>	-	
		ration Units (ug/L o	r mg/kg dry weight	t):	MG/K	GG
	CAS No.	Analyte	Concentration	C Q	м	
	7429-90-5	Aluminum	313		P	*
	7440-36-0	Antimony		В	P	B
	7440-38-2	····		υ	P	~
	7440-39-3	Barium	2.9	i	P	
	7440-41-7	Beryllium	0.02	В	P	B
	7440-43-9	Cadmium	0.04	ט	P	•
	7440-70-2	Calcium	65.6	B	P	
	7440-47-3	Chromium	1.9		P	
	7440-48-4	Cobalt	0.23	в	P	
	7440-50-8	Copper	17.9	1	P	*
	7439-89-6	Iron	875	1	P	
	7439-92-1	Lead	8.2	N N	P	L
A ^{rt}	7439-95-4	Magnesium	;	B E	P	7
	7439-96-5	Manganese	10.1	!	P	
	7439-97-6	Mercury		B	cv	
	7440-02-0	Nickel	 	B	P	•
	7440-09-7	Potassium		B		B
	7782-49-2	Selenium	 	u		UL
	7440-22-4	Silver		n	P	
	7440-28-0	Sodium	65.6		P	<u>L</u>
	7440-62-2	Thallium Vanadium	<u> </u>	N N		UL
	7440-66-6	Zinc	1.6	E	P	- 1
	1	1-1-10	24.0 [Į.E.	P	3/1/1/2
Color Before:	BROWN	Clarity Before:	<u> </u>	Texture	: <u>M</u>	EDIUM
Color After:	YELLOW	Clarity After:		Artifact	ts:	
Comments:						

ab Name:	COMPUCHE	<u>EM</u>	Contra	act:				SSMW	10D-4
Lab Code:	LIBRTY	Case No.	: \$A	\$ No.:	:	EDG N	o.:	Q2812	
Matrix (so:	il/water):	SOIL		Lab Sample ID:	(22812	2-13		
evel (low,	/med):	rom	······································	Date Received:	-	12/04			
					-		,, 02		
k Solids:	85.0								
		Concentra	tion Units (ug/L o	or mg/kg dry weigh	t):		MG/	KG_	
		CAS No.	Analyte	Concentration	С	Q	м		
		7429-90-5	Aluminum	240			P	ik-	
		7440-36-0	Antimony	0.51	В		P	10	
		7440-38-2	Arsenic	0.27	ט		P	Ī -	
		7440-39-3	Barium	1.7	Π		P	Ī	
		7440-41-7	Beryllium	0.01	ן ט		P	Ī	
		7440-43-9	Cadmium	0.04	u		P	Ī	
		7440-70-2	Calcium	80.9	B		P	Ī	
		7440-47-3	Chromium	4.2			P	1	
		7440-48-4	Cobalt	0.14	B		P	Ī	
		7440-50-8	Copper	0.15	ا تا		P	TUL	
		7439-89-6	Iron	594			P	Ī	
		7439-92-1	Lead	0.83	1	1	P	ĪL	
		7439-95-4	Magnesium	32.7	В	2	P	IB	
		7439-96-5	Manganese	3.4			P	1	
		7439-97-6	Mercury	0.020	В		CV	1	
		7440-02-0	Nickel	0.38	В		P	1	
		7440-09-7	Potassium	61.0	В		P	ĪB	
		7782-49-2	Selenium	0.36	u		P	ĪuL	
		7440-22-4	Silver	0.08	U		P	Ī	
		7440-23-5	Sodium	60.0	B		P	Ī	
		7440-28-0	Thallium	0.55	U D	1	P	TUL	
		7440-62-2	Vanadium	1.1	B		P		
		7440-66-6	Zinc	5.6	E		P	TB	
									3/1.13
Color Be	fore: GRI	EY	Clarity Before:	· · · · · · · · · · · · · · · · · · ·	Tex	ture:	: 1	MEDIUM	
Color Af	ter: YEI	LLOW	Clarity After:		Art	ifact	:s:		
Comments	:								
				·		• • •			
									

EPA SAMPLE NO.

Name:	COMPUC	нем	Contr	act:				SSMW11D-1
Lab Code:	LIBRTY	Case No	o.: SA	AS No.:		SDG No	o.:	Q2812
Matrix (so	il/water)	: SOIL		Lab Sample ID:		Q2812	-9	
evel (low,	/med):	LOW		Date Received:		12/04		
				2-10-11-01-1-01-1		12/04	702	
& Solids:	96.6							
		Concentr	ation Units (ug/L	or mg/kg dry weigh	t):		MG/	KG
		CAS No.	Analyte	Concentration	С	Q	М	
		7429-90-5	Aluminum	314			P-	
		7440-36-0	Antimony	0.55	В	Ī	P	ĪЬ
		7440-38-2	Arsenic	0.25	Ū	Ī	P	Ī
		7440-39-3	Barium	2.9			P	1
		7440-41-7	Beryllium	0.02	В	1	P	ĪB
		7440-43-9	Cadmium	0.04	U		P	Ī
		7440-70-2	Calcium	77.7	В	1	P	1
		7440-47-3	Chromium	5.1			P	
		7440-48-4	Cobalt	0.27	В		P	
		7440-50-8	Copper	22.2	<u> </u>	<u> </u>	P	14
		7439-89-6	Iron	1270	<u> </u>	<u> </u>	P	<u> </u>
		7439-92-1	Lead	33.6		N	P	<u> </u> L
		7439-95-4	Magnesium	- !	В	E	P	IT
		7439-96-5	Manganese	13.9			P	į
		7439-97-6	Mercury	0.018	В		cv	_
		7440-02-0	Nickel	0.54			P	!
		7440-09-7	Potassium	-	В		P	13
		7782-49-2	Selenium		U		P	IUL
		7440-22-4	Silver		Ū	<u> </u>	P	
		7440-23-5	Sodium	<u> </u>	В		P	<u> </u>
		7440-28-0	Thallium		บ	N	P	<i>luL</i>
		7440-62-2	Vanadium		В	<u> </u>	P	_
		7440-66-6	Zinc	42.7		E	P	IJ
								distr.
Color Bef	ore: Bl	ROWN	Clarity Before:		Te	xture:	1	MEDIUM
Color Aft	er: YI	ELLOW	Clarity After:		Ar	tifact	s: .	
Comments:				******			•••••	
			 					

Form I - IN

Lab Name: CO	MPUCHEM	Contra	ct:				SSMW1	1-4
	BRTY Case N				SDG No		Q2812	· = + · ·
		JA.					<u>Q2612</u>	
Matrix (soil/w	ater): SOIL		Lab Sample ID:		Q2812	-8		-
Level (low/med): LOW		Date Received:		12/04	/02		_
% Solids: 85	.5							
	Concent	ration Units (ug/L o	r mg/kg dry weigh	t):		MG/	KG	
	CAS No.	Analyte	Concentration	С	Q	м		
	7429-90-5	Aluminum	172		 	P	 	
	7440-36-0	Antimony	0.50	В	i	P	ÍB	
	7440-38-2	Arsenic	0.27	U	1	P	Ī	
	7440-39-3	Barium	1.7	1	1	P	Ī	
	7440-41-7	Beryllium	0.01	U	1	P	Ī	
	7440-43-9	Cadmium	0.04	Ū	1	P	Ī	
	7440-70-2	Calcium	87.9	В	1	P	Ī	
	7440-47-3	Chromium	1.9		1	P	1	
	7440-48-4	Cobalt	0.09	В	1	P		
	7440-50-8	Copper	0.50	В	1	P	ĪL	
	7439-89-6	Iron	559	1	1	P	Ī	
	7439-92-1	Lead	2.0		[N	P	آل	
	7439-95-4	Magnesium	28.1	B	E	P	ĪΒ	
	7439-96-5	Manganese	5.2			P	1	
	7439-97-6	Mercury	0.017	U	1	CV	Ī	
	7440-02-0	Nickel	0.20	B		P	Ī	
	7440-09-7	Potassium	46.2	В	T	P	13	
	7782-49-2	Selenium	0.36	U		P	JUL	
	7440-22-4	Silver	0.08	Įΰ		P	Ī	
	7440-23-5	Sodium	51.1	В		P	ĪL	
	7440-28-0) Thallium	0.55	U	N	P	JUL	
	7440-62-2	Vanadium	0.81	B	1	P	Ī _	
	7440-66-6	Zinc	3.6		E	P	17B	
								3/2,63
Color Before	: GREY	Clarity Before:		T	exture:	:	MEDIUM	
Color After:	AETTOM	Clarity After:		A	rtifact	.s:		
Comments:								

CLIENT SAMPLE NO.

6 gmw055

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.:

COMPOUND

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-18

Sample wt/vol:

5.0 (g/mL) G

Lab File ID: R2812-18A52

Level: (low/med) LOW

Date Received: 12/12/02

% Moisture: not dec. 21

CAS NO.

Date Analyzed: 12/19/02

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: ____(uI

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q

75-71-8Dichlorodifluoromethane	6	U
74-87-3Chloromethane	Ğ	i -
75-01-4Vinyl Chloride	Ğ	1 -
74-83-9Bromomethane	ő	
75-00-3Chloroethane	6	
75-69-4Trichlorofluoromethane		บั
75-35-41,1-Dichloroethene		Ŭ
75-15-0Carbon disulfide		บั
76-13-11,1,2-trichloro-1,2,2-triflu		บั
67-64-1Acetone	16	-
75-09-2Methylene Chloride	6	
156-60-5trans-1,2-Dichloroethene	6	
1634-04-4Methyl-tert-butyl ether	6	บ
75-34-31,1-Dichloroethane	6	_
156-59-2cis-1,2-Dichloroethene	6	ប
78-93-32-butanone	-	_
67-66-3Chloroform	16	
71-55-61,1,1-Trichloroethane	-	Ü
56-23-5Carbon Tetrachloride	_	ប
71-43-2Benzene	6	U
107-06-21,2-Dichloroethane	6	
70 01 C	6	U
79-01-6Trichloroethene	6	Ŭ
78-87-51,2-Dichloropropane	- 1	U
75-27-4Bromodichloromethane	6	
10061-01-5cis-1,3-Dichloropropene	6	
108-10-14-Methyl-2-pentanone	16	
108-88-3Toluene		JB
10061-02-6trans-1,3-Dichloropropene		U
79-00-51,1,2-Trichloroethane	6	U
127-18-4Tetrachloroethene		U
591-78-62-hexanone	16	U
124-48-1Dibromochloromethane		U
106-93-41,2-Dibromoethane	6	U
FORM I VOA		

FORM I VOA

ab Name:	COMPUCHE	<u> </u>	Contra	act:				SSMW11D-	4
Lab Code:	LIBRTY	Case No	.:SA	S No.:		SDG N	ю.:	Q2812	
Matrix (soi	.1/water):	SOIL		Lab Sample ID:	:	Q281	2-10		
evel (low/	med):	LOW		Date Received:	:	12/0			
Solids:	85.7								
DOLLUS.	03.7	_						-	
		Concentra	ation Units (ug/L o	or mg/kg dry weigh	1 t) :		MG/	KG	
		CAS No.	Analyte	Concentration	С	Q	м		
		7429-90-5	Aluminum	216	\vdash	<u> </u>	P	ik	
		7440-36-0	Antimony	0.46	B	i 	P	j B	
		7440-38-2	Arsenic	0.29	U	1	P	1	
		7440-39-3	Barium	1.9			P]	
		7440-41-7	Beryllium	0.01	В	T	P	ĪB	
		7440-43-9	Cadmium	0.05	Ū		P	<u> </u>	
		7440-70-2	Calcium	88.9	В		P	<u>1</u>	
		7440-47-3	Chromium	2.2	<u> </u>		P	Ī	
		7440-48-4	Cobalt	0.16	В	<u> </u>	P	<u>_l</u>	
		7440-50-8	Copper	0.97	<u> </u>	<u> </u>	P	<u> </u>	
		7439-89-6	Iron	734	<u> </u>	<u> </u>	P	<u>.</u> !	
		7439-92-1	Lead	2.6	<u> </u>	N	P		
		7439-95-4	Magnesium	32.1	В	E	P	<u> </u>	
		7439-96-5	Manganese	5.4	<u> </u>		P	<u> </u>	
		7439-97-6	Mercury		В		cv	_!	
		7440-02-0	Nickel	0.23	B		P	<u> </u>	
		7440-09-7	Potassium		В	<u> </u>	P	<u>I</u> B	
		7782-49-2	Selenium	0.38	ַט	<u> </u>	l b	<u>l</u> uL	
		7440-22-4	Silver	 	וַט	<u> </u>	P	<u> </u>	
		7440-23-5	Sodium	59.7	В	<u> </u>	P		
		7440-28-0	Thallium	0.58	<u> </u>	И	P	Jul	
		7440-62-2	Vanadium	0.99	В	<u> </u>	P	1 - + 0	
		7440-66-6	Zinc	5.9	<u> </u>	E	P	<u> </u> }	
								3(29	dz.
Color Bef	fore: GRE	EY	Clarity Before:		T	exture	: .	MEDIUM	
Color Aft	er: YEI	LLOW	Clarity After:		A	rtifac	ts:	····	
Comments:							·		

CLIENT SAMPLE NO.

69MW06

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY Case No.:

LOW

SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-20

Sample wt/vol:

5.0 (g/mL) G

Lab File ID: R2812-20A52

Level: (low/med)

Date Received: 12/12/02

% Moisture: not dec. 20

Date Analyzed: 12/19/02

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: ____(u:

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO. COMPOUND

0

1			
75-71-8	Dichlorodifluoromethane	6	U
74-87-3	Chloromethane	6	Ū
75-01-4	Vinyl Chloride	6	บ
74-83-9	Bromomethane	6	تا
75-00-3	Chloroethane	6	U
75-69-4	Trichlorofluoromethane	6	Ü
75-35-4	1,1-Dichloroethene	6	Ü
	Carbon disulfide	6	Ū
76-13-1	1,1,2-trichloro-1,2,2-triflu	6	Ū
67-64-1	Acetone	16	Ū
	Methylene Chloride	l6	Ū
	trans-1,2-Dichloroethene	6	Ŭ
1634-04-4	Methyl-tert-butyl ether	Š	Ū
75-34-3	1,1-Dichloroethane	6	Ū
	cis-1,2-Dichloroethene	, s	Ü
78-93-3	2-butanone	16	Ŭ
	Chloroform	6	บั
71-55-6	1,1,1-Trichloroethane	6	Ŭ
56-23-5	Carbon Tetrachloride	. 6	Ü
71-43-2	Benzene	6	Ü
	1,2-Dichloroethane	Ğ	Ü
79-01-6	Trichloroethene	6	Ü
78-87-5	1,2-Dichloropropane	6	Ü
75-27-4	Bromodichloromethane	6	Ü
10061-01-5	cis-1,3-Dichloropropene	6	Ü
108-10-1	4-Methyl-2-pentanone	16	_
108-88-3	Toluene	6	บั
10061-02-6	trans-1,3-Dichloropropene	6	Ŭ
79-00-5	1,1,2-Trichloroethane	6	Ŭ
127-18-4	Tetrachloroethene	6	ប
591-78-6	2-hexanone	16	Ü
124-48-1	Dibromochloromethane	6	Ü
106-93-4	1,2-Dibromoethane	6	Ü
	,		`
	FORM I VOA		

Lab Name: COMPUCHEM

CLIENT SAMPLE NO.

6 \$MW05\$S	-
-------------	---

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: R2812 Matrix: (soil/water) SOIL Lab Sample ID: R2812-18 Sample wt/vol: 5.0 (g/mL) GLab File ID: R2812-18A52 Level: (low/med) LOW Date Received: 12/12/02 % Moisture: not dec. 21 Date Analyzed: 12/19/02 GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Method: 8260B

CONCENTRATION UNITS:

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(u

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q 108-90-7-----Chlorobenzene 6 U б U U 6 6 U 98-82-8-----Isopropyl Benzene 79-34-5-----1,1,2,2-Tetrachloroethane 6 U 6 U 541-73-1-----1,3-Dichlorobenzene 6 U 106-46-7----1,4-Dichlorobenzene 6 U 95-50-1-----1,2-Dichlorobenzene 6 U 96-12-8-----1,2-Dibromo-3-Chloropropane 120-82-1----1,2,4-Trichlorobenzene 6 U 6 U 1330-20-7-----Xylene (total) 79-20-9-----Methyl acetate 19 U 6 U

110-82-7-----Cyclohexane

108-87-2-----Methylcyclohexane

FORM I VOA

6 U

6 U

CLIENT SAMPLE NO.

6 mwo9

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-19

Sample wt/vol: 5.0 (g/mL) G

COMPOUND

Date Received: 12/12/02

Level: (low/med) LOW

Lab File ID: R2812-19A52

% Moisture: not dec. 20

CAS NO.

Date Analyzed: 12/19/02

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: ____(uI

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q

	Dichlorodifluoromethane	6	U
74-87-3	Chloromethane	6	U
75-01-4	Vinyl Chloride	6	U
74-83-9	Bromomethane	6	U
75-00-3	Chloroethane	6	U
75-69-4	Trichlorofluoromethane	6	U
75-35-4	1,1-Dichloroethene	6	U
	Carbon disulfide	6	U
	$1,1,2$ -trichloro- $\overline{1,2,2}$ -triflu	6	U
67-64-1		16	Ū
	Methylene Chloride	6	1
	trans-1,2-Dichloroethene	6	Ū
	Methyl-tert-butyl ether	6	บั
	1,1-Dichloroethane	6	Ŭ.
156-59-2	cis-1,2-Dichloroethene	6	Ü
	2-butanone	16	Ü
	Chloroform	6	Ŭ
	1,1,1-Trichloroethane	6	บั
	Carbon Tetrachloride	6	Ιŭ
71-43-2		6	บั
	1,2-Dichloroethane	6	บั
	Trichloroethene	6	บ
	1,2-Dichloropropane	6	บ็
	Bromodichloromethane		ט
		6	Ü
	cis-1,3-Dichloropropene	6	
	4-Methyl-2-pentanone	16	
108-88-3		6	
10061-02-6	trans-1,3-Dichloropropene	6	1
	1,1,2-Trichloroethane	6	
	Tetrachloroethene	6	_
	2-hexanone	16	•
124-48-1	Dibromochloromethane	6	U
106-93-4	1,2-Dibromoethane	6	U
	FORM I VOA		

CLIENT SAMPLE NO.

6 kmm0e

Method: 8260B Lab Name: COMPUCHEM Lab Code: LIBRTY Case No.: SAS No.: SDG No.: R2812

Matrix: (soil/water) SOIL Lab Sample ID: R2812-20

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R2812-20A52

Level: (low/med) LOW Date Received: 12/12/02

% Moisture: not dec. 20 Date Analyzed: 12/19/02

GC Column: EOUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Aliquot Volume: __(u) Soil Extract Volume: (uL)

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG 0 6 U 108-90-7-----Chlorobenzene 100-41-4-----Ethylbenzene_____ 100-42-5------Styrene____ 6 U 6666666 U 75-25-2-----Bromoform U U U U U 6 U 6 U 19 U 6 U 6 U

U 6

CLIENT SAMPLE NO.

SS-MW11-0

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-17

Sample wt/vol:

5.0 (g/mL) G

Lab File ID: R2812-17A59

Level: (low/med) LOW

Date Received: 12/06/02

% Moisture: not dec. 9

Date Analyzed: 12/12/02

GC Column: ZB624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: ____(u)

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q

		 1	ı
75-71-8Dichlorodifluoromethane	5	ן די	
74-87-3Chloromethane	5	บั	ĺ
75-01-4Vinyl Chloride	5	บั	l
74-83-9Bromomethane	5	บั	l
75-00-3Chloroethane	5	Ŭ	l
75-69-4Trichlorofluoromethane	5	Ŭ	l
75-35-41,1-Dichloroethene	5	Ü	ĺ
75-15-0Carbon disulfide	5	บั	ĺ
76-13-11,1,2-trichloro-1,2,2-triflu	5	Ŭ	ĺ
67-64-1Acetone	14		l _
75-09-2Methylene Chloride	4	· ·	lB -
156-60-5trans-1,2-Dichloroethene	5	Ü	
1634-04-4Methyl-tert-butyl ether	5	ΰ	l
75-34-31,1-Dichloroethane	5	บ	ł
156-59-2cis-1,2-Dichloroethene	5	Ū	i
78-93-32-butanone	14	บ	
67-66-3Chloroform		Ū	ĺ
71-55-61,1,1-Trichloroethane	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	ט ו	
56-23-5Carbon Tetrachloride	5	U	ļ
71-43-2Benzene	5	บ	ŀ
107-06-21,2-Dichloroethane	5	U	į
79-01-6Trichloroethene	5	บ	
78-87-51,2-Dichloropropane	5	บ	
75-27-4Bromodichloromethane	5	υ	
10061-01-5cis-1,3-Dichloropropene	5	์ บ 📗	
108-10-14-Methyl-2-pentanone	14	บ	
108-88-3Toluene	1	JB	B
10061-02-6trans-1,3-Dichloropropene	5	ט	
79-00-51,1,2-Trichloroethane	5	U	
127-18-4Tetrachloroethene	5	υ	
591-78-62-hexanone	14	ט	
124-48-1Dibromochloromethane	5	U	
106-93-41,2-Dibromoethane	5	U	
FORM I VOA			: [1

CLIENT SAMPLE NO.

6 BMW09 SDG No.: R2812

Lab Name: COMPUCHEM

Lab Code: LIBRTY Case No.:

SAS No.:

Method: 8260B

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-19

Sample wt/vol:

5.0 (q/mL) G

Lab File ID:

R2812-19A52

LOW

Level: (low/med)

Date Received: 12/12/02

Date Analyzed: 12/19/02

GC Column: EQUITY624 ID: 0.53 (mm)

% Moisture: not dec. 20

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (u)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

0

108-90-7	Chlorobenzene	6	lυ
100-41-4	Ethylbenzene	6	Ū
100-42-5	Styrene	6	Ū
75-25-2	Bromoform	6	υ
98-82-8	Isopropyl Benzene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	U
	1,2-Dichlorobenzene	6	U
96-12-8	1,2-Dibromo-3-Chloropropane	6	U
120-82-1	1,2,4-Trichlorobenzene	6	U
1330-20-7	Xylene (total)	19	U
79-20-9	Methyl acetate	6	U
110-82-7	Cyclohexane	6	U
108-87-2	Methylcyclohexane	6	U

CLIENT SAMPLE NO.

SS-SB01-0

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-8

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: R2812-8RA59

Level: (low/med) LOW

Date Received: 12/06/02

% Moisture: not dec. 1

CAS NO.

Date Analyzed: 12/12/02

GC Column: ZB624 ID: 0.32 (mm)

COMPOUND

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: _____(uI

			UNITS:
(ug/L	or	ug/Kg) UG/KG

1			1
75-71-8Dichlorodifluoromethane	5	ប	
74-87-3Chloromethane	5	Ŭ	•
75-01-4Vinyl Chloride	5	บั	
74-83-9Bromomethane	5	บั	
75-00-3Chloroethane	5	Ŭ	l
75-69-4Trichlorofluoromethane	5	Ŭ	
75-35-41,1-Dichloroethene	5	Ŭ	
75-15-0Carbon disulfide	5	บั	
76-13-11,1,2-trichloro-1,2,2-triflu	5	บี	
67-64-1Acetone	13	บ็	ļ
75-09-2Methylene Chloride	8	В	B
	5	บี	
156-60-5trans-1,2-Dichloroethene	5 5	บ	
1634-04-4Methyl-tert-butyl ether	ב	Ü	ļ
75-34-31,1-Dichloroethane	5		ļ
156-59-2cis-1,2-Dichloroethene	5	Ü	
78-93-32-butanone	13		ł
67-66-3Chloroform	5	U	
71-55-61,1,1-Trichloroethane	5	U	ŀ
56-23-5Carbon Tetrachloride	5	U	ŀ
71-43-2Benzene	5	U	
107-06-21,2-Dichloroethane	5	U	}
79-01-6Trichloroethene	5	U	Ì
78-87-51,2-Dichloropropane	5	U	ļ
75-27-4Bromodichloromethane	5	U	
10061-01-5cis-1,3-Dichloropropene	5	U	
108-10-14-Methyl-2-pentanone	13	U	۱ ـ
108-88-3Toluene	0.8	JB	B
10061-02-6trans-1,3-Dichloropropene	5	U	[
79-00-51,1,2-Trichloroethane	5	U	
127-18-4Tetrachloroethene	5		<u> </u>
591-78-62-hexanone	13		1
124-48-1Dibromochloromethane	5	Ū	[
106-93-41,2-Dibromoethane	5	Ū	ł
			ļ
FORM I VOA			• .

CLIENT SAMPLE NO.

SS-MW11-0 Lab Name: COMPUCHEM Method: 8260B Lab Code: LIBRTY Case No.: SAS No.: SDG No.: R2812 Matrix: (soil/water) SOIL Lab Sample ID: R2812-17 Sample wt/vol: 5.0 (g/mL) GLab File ID: R2812-17A59 Level: (low/med) LOW Date Received: 12/06/02 % Moisture: not dec. 9 Date Analyzed: 12/12/02 GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0 Soil Extract Volume: ____(uL) Soil Aliquot Volume: ___ (ul CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG

108-90-7Chlorobenzene 100-41-4Ethylbenzene 100-42-5Styrene 75-25-2Bromoform 98-82-8Isopropyl Benzene 79-34-51,1,2,2-Tetrachloroethane 541-73-11,3-Dichlorobenzene 106-46-71,4-Dichlorobenzene 95-50-11,2-Dichlorobenzene	5 5 5 5 5 5 5 5 5 5	U U U U U U U
96-12-81,2-Dibromo-3-Chloropropane 120-82-11,2,4-Trichlorobenzene 1330-20-7Xylene (total) 79-20-9Methyl acetate 110-82-7Cyclohexane 108-87-2Methylcyclohexane	5 16 5 5 5	บ บ บ บ บ

CLIENT SAMPLE NO.

SS-SB01-1

Lab Name: COMPUCHEM Method: 8260B

AD Maille 1 Colle Villand

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: R2812

Matrix: (soil/water) SOIL Lab Sample ID: R2812-9

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R2812-9A59

Level: (low/med) LOW Date Received: 12/06/02

% Moisture: not dec. 5
Date Analyzed: 12/12/02

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL

CAS NO.	COMPOUND	CONCENTRA (ug/L or			Q	1
74-87-3 75-01-4 74-83-9 75-00-3 75-69-4 75-35-4 75-15-0 76-13-1 67-64-1 75-09-2 156-60-5	-Vinyl Chloride -Bromomethane -Chloroethane -Trichlorofluorom -1,1-Dichloroethe -Carbon disulfide -1,1,2-trichloro-	ethane ne 1,2,2-tri	flu	-	ם מ א ב ש מ מ מ מ מ מ מ מ מ מ מ מ מ מ מ מ מ מ	В
75-34-3 156-59-2 78-93-3 67-66-3 71-55-6 56-23-5 71-43-2 107-06-2 79-01-6 78-87-5	-1,1-Dichloroethar- -cis-1,2-Dichloroethar- -2-butanone -Chloroform -1,1,1-Trichloroethar- -Carbon Tetrachloroethar- -Benzene -1,2-Dichloroethar- -Trichloroethene -1,2-Dichloroproper- -Bromodichloromethar-	thane ride ane ane		55355555555	מממממממממממ	
108-10-1 108-88-3 10061-02-6 79-00-5 127-18-4 591-78-6 124-48-1	-trans-1,3-Dichlor -1,1,2-Trichloroet -Tetrachloroethene	ropropene thane		2 5 5 5	U U JB U U U U U	B
	FORM I VO	AC		 		3/00 ~

CLIENT SAMPLE NO.

SS-SB01-0 Lab Name: COMPUCHEM Method: 8260B Lab Code: LIBRTY Case No.: SAS No.: SDG No.: R2812 Matrix: (soil/water) SOIL Lab Sample ID: R2812-8 5.0 (q/mL) GLab File ID: Sample wt/vol: R2812-8RA59 (low/med) Date Received: 12/06/02 Level: LOW % Moisture: not dec. 1 Date Analyzed: 12/12/02 GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0 Soil Aliquot Volume: ____(u) Soil Extract Volume: (uL) CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q 108-90-7-----Chlorobenzene 5 | U

100-41-4-----Ethylbenzene 555555555 U 100-42-5-----Styrene U 75-25-2-----Bromoform U U U U U U U U 15 U 5 5 5 U U 108-87-2-----Methylcyclohexane U

U

FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET

SS-SB01-4

Lab Name: COMPUCHEM

Method: 8260B

CONCENTRATION UNITS:

Lab Code: LIBRTY SAS No.: SDG No.: R2812 Case No.:

Matrix: (soil/water) SOIL Lab Sample ID: R2812-10

Sample wt/vol: 5.0 (g/mL) GLab File ID: R2812-10A59

Date Received: 12/06/02 (low/med) LOW Level:

% Moisture: not dec. 20 Date Analyzed: 12/12/02

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

75-00-3-----Chloroethane

79-00-5-----1,1,2-Trichloroethane

124-48-1-----Dibromochloromethane

127-18-4-----Tetrachloroethene

106-93-4----1,2-Dibromoethane

591-78-6----2-hexanone

Soil Extract Volume: (uL) Soil Aliquot Volume: (u

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG O 75-71-8-----Dichlorodifluoromethane 6 U 74-87-3-----Chloromethane 6 U 75-01-4-----Vinyl Chloride U 74-83-9-----Bromomethane U

6666666 75-69-4----Trichlorofluoromethane U 75-35-4-----1,1-Dichloroethene_ U 75-15-0-----Carbon disulfide U 76-13-1----1,1,2-trichloro-1,2,2-triflu U 67-64-1------Acetone 16 75-09-2-----Methylene Chloride В 6 JB 156-60-5-----trans-1,2-Dichloroethene 6 U 1634-04-4-----Methyl-tert-butyl ether 6 U 75-34-3----1,1-Dichloroethane 6 U 156-59-2----cis-1,2-Dichloroethene 6 U 78-93-3----2-butanone 16 U 67-66-3-----Chloroform 6 U 71-55-6-----1,1,1-Trichloroethane 6 U 56-23-5-----Carbon Tetrachloride 6 U 71-43-2-----Benzene 6 U 107-06-2----1,2-Dichloroethane 6 U 79-01-6-----Trichloroethene 6 U 6 U 6 U 10061-01-5----cis-1,3-Dichloropropene 6 U 108-10-1-----4-Methyl-2-pentanone 16 U 108-88-3-----Toluene B 2 JB 10061-02-6----trans-1,3-Dichloropropene

FORM I VOA

3/26/3

6 U

6 U

6 U

6 U

6 U

16 U

CLIENT SAMPLE NO.

SS-SB01-1

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-9

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: R2812-9A59

Level: (low/med) LOW

Date Received: 12/06/02

% Moisture: not dec. 5

Date Analyzed: 12/12/02

GC Column: ZB624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: ____(ul

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Ko	g) UG/KG		Q
	Chlorobenzene			5	U

[1	
108-90-7Chlorobenzene	5	บ
100-41-4Ethylbenzene	5	U
100-42-5Styrene	5	U
75-25-2Bromoform	5	U
98-82-8Isopropyl Benzene	5	U
79-34-51,1,2,2-Tetrachloroethane	T 5	U
541-73-11,3-Dichlorobenzene	5	U
106-46-71,4-Dichlorobenzene	5	U
95-50-11,2-Dichlorobenzene	5	U
96-12-81,2-Dibromo-3-Chloropropane	5	U
120-82-11,2,4-Trichlorobenzene	[5	U
1330-20-7Xylene (total)	16	U
79-20-9Methyl acetate	5	U
110-82-7Cyclohexane	5	U
108-87-2Methylcyclohexane	5	U

SDG No.: R2812

SS-SB02-0

Lab Name: COMPUCHEM

Lab Code: LIBRTY Case No.:

Method: 8260B

Matrix: (soil/water) SOIL Lab Sample ID: R2812-5

Sample wt/vol: 5.0 (q/mL) G Lab File ID: R2812-5A52

Level: (low/med) LOW Date Received: 12/06/02

% Moisture: not dec. 3 Date Analyzed: 12/10/02

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: ____(u

SAS No.:

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG

Q

75-71-8Dichlorodifluoromethane	5 5	U U
75-01-4Vinyl Chloride	5 5	Ŭ
74-83-9Bromomethane) 5	U
75-00-3Chloroethane	5	U
75-69-4Trichlorofluoromethane	5	ប
75-35-41,1-Dichloroethene 75-15-0Carbon disulfide	5	
76-13-11,1,2-trichloro-1,2,2-triflu	5 5	U
67-64-1Acetone	13	
75-09-2Methylene Chloride		ט
156-60-5trans-1,2-Dichloroethene	5 5 5 5	lΰ
1634-04-4Methyl-tert-butyl ether	ן ק	Ü
75-34-31,1-Dichloroethane	<u> </u>	บี
156-59-2cis-1,2-Dichloroethene	5	ľŪ
78-93-32-butanone	13	1 -
67-66-3Chloroform	5	
71-55-61,1,1-Trichloroethane	5	U
56-23-5Carbon Tetrachloride	5	U
71-43-2Benzene	5 5	U
107-06-21,2-Dichloroethane	5	U
79-01-6Trichloroethene	5	U
78-87-51,2-Dichloropropane	5	U
75-27-4Bromodichloromethane	5	U
10061-01-5cis-1,3-Dichloropropene	5	U
108-10-14-Methyl-2-pentanone	13	
108-88-3Toluene	5	Ü
10061-02-6trans-1,3-Dichloropropene	5	Ü
79-00-51,1,2-Trichloroethane 127-18-4Tetrachloroethene	5	
591-78-62-hexanone	5	-
124-48-1Dibromochloromethane	13	U
106-93-41,2-Dibromoethane	5 5	ប
1/2 DIDIOMOCCHAILE	ي .	ال
TODA T WAS		·

FORM I VOA

Lab Name: COMPUCHEM

CLIENT SAMPLE NO.

SS~SB01-4

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: R2812

Method: 8260B

Matrix: (soil/water) SOIL Lab Sample ID: R2812-10

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R2812-10A59

Level: (low/med) LOW Date Received: 12/06/02

% Moisture: not dec. 20 Date Analyzed: 12/12/02

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (u)

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG 0 108-90-7-----Chlorobenzene____ 6 U 100-41-4-----Ethylbenzene 6 U 100-42-5-----Styrene 6 U 75-25-2-----Bromoform 6 U 98-82-8-----Isopropyl Benzene 6 Ū 79-34-5-----1,1,2,2-Tetrachloroethane_ 541-73-1----1,3-Dichlorobenzene_ 6 U 6 Ũ 106-46-7----1,4-Dichlorobenzene 6 U 95-50-1-----1,2-Dichlorobenzene 6 U 6 U U 6 19 U 6 U 6 U 6 U

CLIENT SAMPLE NO.

SS~SB02-1

Lab Name: COMPUCHEM

Method: 8260B

LOW

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-6

Sample wt/vol:

5.0 (g/mL) G

Lab File ID: R2812-6RA59

Level: (low/med)

Date Received: 12/06/02

% Moisture: not dec. 8

Date Analyzed: 12/12/02

GC Column: ZB624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: ____(u

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

1	· · · · · · · · · · · · · · · · · · ·		1	i
	Dichlorodifluoromethane	5	ט	
74-87-3	Chloromethane		U	
75-01-4	Vinyl Chloride	5	טו	
74-83-9	Bromomethane	5	ט	ł
	Chloroethane	5	U	
	Trichlorofluoromethane	5 5 5 5 5	U	
75-35-4	1,1-Dichloroethene	5	ט	
	Carbon disulfide	5	U	
76-13-1	1,1,2-trichloro-1,2,2-triflu	1	J	1
67-64-1	Acetone	13	J	1
75-09-2	Methylene Chloride	5	JB	l B
156-60-5	trans-1,2-Dichloroethene	5	U	_
	Methyl-tert-butyl ether	5	U	
75-34-3	1,1-Dichloroethane	5 5	ľU	
156-59-2	cis-1,2-Dichloroethene	5	U	1
78-93-3	2-butanone	14	U	1
	Chloroform	5	U	ļ
71-55-6	1,1,1-Trichloroethane	5	U	
	Carbon Tetrachloride	5	U	1
71-43-2		5	U	1
107-06-2	1,2-Dichloroethane	5 5 5	U	ì
	Trichloroethene	5	U	
78~87-5	1,2-Dichloropropane	5	U	1
	Bromodichloromethane	5	U	
10061-01-5	cis-1,3-Dichloropropene	5	U	Ì
108-10-1	4-Methyl-2-pentanone	14	U	
108-88-3		3	JB	10
10061-02-6	trans-1,3-Dichloropropene	5	U	1
79-00-5	1,1,2-Trichloroethane	5 5	U	}
127-18-4	Tetrachloroethene	5	U	
	2-hexanone	14	U	
	Dibromochloromethane	5	U	1
106-93-4	1,2-Dibromoethane	5	U	1
				1
	FORM I VOX			_

FORM I VOA

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM Method: 8260B SS-SB02-0

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: R2812

Matrix: (soil/water) SOIL Lab Sample ID: R2812-5

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R2812-5A52

Level: (low/med) LOW Date Received: 12/06/02

% Moisture: not dec. 3
Date Analyzed: 12/10/02

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uI

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q 108-90-7-----Chlorobenzene 100-41-4-----Ethylbenzene 100-42-5-----Styrene 75-25-2-----Bromoform 98-82-8-----Isopropyl Benzene_ 79-34-5----1,1,2,2-Tetrachloroethane 541-73-1-----1,3-Dichlorobenzene
106-46-7-----1,4-Dichlorobenzene
95-50-1-----1,2-Dichlorobenzene
96-12-8------1,2-Dibromo-3-Chloropropane
120-82-1-----1,2,4-Trichlorobenzene 1330-20-7-----Xylene (total) 79-20-9-----Methyl acetate 15 U 5 U 110-82-7------Cyclohexane 5 U 108-87-2-----Methylcyclohexane 5 U

CLIENT SAMPLE NO.

SDG No.: R2812

SS-SB02-4

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.:

Matrix: (soil/water) SOIL Lab Sample ID: R2812-7

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R2812-7A59

Level: (low/med) LOW Date Received: 12/06/02

% Moisture: not dec. 20
Date Analyzed: 12/12/02

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL

SAS No.:

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L	or ug/Kg) UG/KG		Q	
	Dichlorodifluoromethane	e	6 U		
	Chloromethane		6 7		
	Vinyl Chloride		6 T		ļ
	Bromomethane		6 T		
	Chloroethane		6 U	Ţ	
	Trichlorofluoromethane		6 U		ļ
	1,1-Dichloroethene		6 T	J	
75-15-0	Carbon disulfide		6 L	Ţ	
76-13-1	1,1,2-trichloro- $1,2,2-1$	riflu	6 T	Ţ	ı
67-64-1	Acetone		20		
75-09-2	Methylene Chloride		6 J	В	10
156-60-5	trans-1,2-Dichloroether	ne	6 U	Ţ	-
1634-04-4	Methyl-tert-butyl ether	r	6 L	Ţ	}
75-34-3	1,1-Dichloroethane		6 T	Ī	1
156-59-2	cis-1,2-Dichloroethene		6 U	ī	
	2-butanone		16 U	ī	i
	Chloroform		6 U		ľ
	1,1,1-Trichloroethane		6 U		
	Carbon Tetrachloride		6 U		i
71-43-2			6 U		l
	1,2-Dichloroethane		6 U		
79-01-6	Trichloroethene		6 U		
78-87-5	1,2-Dichloropropane		6 U		ŀ
75-27-4	Bromodichloromethane		6 U		ŀ
10061-01-5	cis-1,3-Dichloropropene	<u> </u>	6 U		
	4-Methyl-2-pentanone	 }	16 U		ľ
108-88-3			_2 J		0
	trans-1,3-Dichloroprope	ne l	6 U		
79-00-5	1,1,2-Trichloroethane		6 U		1
127-18-4	Tetrachloroethene		6 U		1
	2-hexanone		16 U		
124-48-1	Dibromochloromethane		16 U		
106-93-4	1,2-Dibromoethane		6 U	1	l
	• • • • • • • • • • • • • • • • • • • •				
	FORM I VOA		'-		ี่ <u>ว</u> \ำ
					اُ

CLIENT SAMPLE NO.

SS-SB02-1

Method: 8260B Lab Name: COMPUCHEM

CONCENTRATION UNITS:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: R2812

Lab Sample ID: R2812-6 Matrix: (soil/water) SOIL

5.0 (g/mL) GLab File ID: R2812-6RA59 Sample wt/vol:

Level: (low/med) LOW Date Received: 12/06/02

% Moisture: not dec. 8 Date Analyzed: 12/12/02

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: ____(u

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q 5 108-90-7-----Chlorobenzene U 100-41-4-----Ethylbenzene_ 5555555555 U 100-42-5----Styrene U 75-25-2-----Bromoform U 98-82-8-----Isopropyl Benzene U U U U U U U 16 U U 5 110-82-7-----Cyclohexane 5 U 108-87-2-----Methylcyclohexane 5 U

CLIENT SAMPLE NO.

SS-SB03-0

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-2

Sample wt/vol: 5.0 (g/mL) G

Lab File ID:

R2812-2A52

Level: (low/med) LOW

Date Received: 12/06/02

% Moisture: not dec. 3

Date Analyzed: 12/10/02

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: ____(uL

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q

		· · · · · · · · · · · · · · · · · · ·
75-71-8Dichlorodifluoromethane	5	U
74-87-3Chloromethane	5	Ŭ
75-01-4Vinyl Chloride	5 5 5 5 5 5 5 5	ľŭ
74-83-9Bromomethane	5	ϋ
75-00-3Chloroethane	Š	ΙŬ
75-69-4Trichlorofluoromethane	5	บั
75-35-41,1-Dichloroethene	รั	Ū
75-15-0Carbon disulfide		lŭ
76-13-11,1,2-trichloro-1,2,2-triflu	Š	υ
67-64-1Acetone	13	Ιŭ
75-09-2Methylene Chloride	5	ϋ
156-60-5trans-1,2-Dichloroethene	7 5	ϋ
1634-04-4Methyl-tert-butyl ether	5 5 5 5	ŭ
75-34-31,1-Dichloroethane	ے د	υ
156-59-2cis-1,2-Dichloroethene	ے د	U
78-93-32-butanone	13	υ
67-66-3Chloroform		บั
71-55-61,1,1-Trichloroethane	5 5 5 5 5 5 5 5 5	Ü
56-23-5Carbon Tetrachloride	ر ء	Ü
71-43-2Benzene	5	บี
107-06-21,2-Dichloroethane	2	บั
79-01-6Trichloroethene	5	ט
78-87-51,2-Dichloropropane		บ็
75-27-4Bromodichloromethane	5 5	שׁ
10061-01-5cis-1,3-Dichloropropene	5 5	
108-10-14-Methyl-2-pentanone		
108-88-3Toluene	13	
10061-02-6trans-1,3-Dichloropropene	5	ַ
70 00 5 1 1 2 Trichlemorphy	5 5	Ü
79-00-51,1,2-Trichloroethane 127-18-4Tetrachloroethene		U
591-78-62-hexanone	5	l
134 49 1 Dibromochl	13	
124-48-1Dibromochloromethane	5	Ŭ
106-93-41,2-Dibromoethane	5	ט
FORM I VOA		l

CLIENT SAMPLE NO.

SS-SB02-4 Method: 8260B Lab Name: COMPUCHEM SDG No.: R2812 Lab Code: LIBRTY Case No.: SAS No.: Lab Sample ID: R2812-7 Matrix: (soil/water) SOIL Lab File ID: R2812-7A59 Sample wt/vol: 5.0 (g/mL) G Date Received: 12/06/02 Level: (low/med) LOW % Moisture: not dec. 20 Date Analyzed: 12/12/02 Dilution Factor: 1.0 GC Column: ZB624 ID: 0.32 (mm) Soil Aliquot Volume: ____(ul Soil Extract Volume: ____(uL) CONCENTRATION UNITS: Q (ug/L or ug/Kg) UG/KG CAS NO. COMPOUND

100 00 7 Chlorobonzono	6	U
108-90-7Chlorobenzene 100-41-4Ethylbenzene	6	ΙΪ
100-42-5Styrene	6	ŭ
75-25-2Bromoform	6	Ū
98-82-8Isopropyl Benzene	6	Ū
79-34-51,1,2,2-Tetrachloroethane	6	ប
541-73-11,3-Dichlorobenzene	6	ט
106-46-71,4-Dichlorobenzene	6	U
95-50-11,2-Dichlorobenzene	6	U
96-12-81,2-Dibromo-3-Chloropropane	6	U
120-82-11,2,4-Trichlorobenzene	6	U
1330-20-7Xylene (total)	19	U
79-20-9Methyl acetate	6	U
110-82-7Cyclohexane	6	U
108-87-2Methylcyclohexane	6	U
		l

CLIENT SAMPLE NO.

SS-SB03-1

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-3

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: R2812-3A52

Level: (low/med) LOW

Date Received: 12/06/02

% Moisture: not dec. 5

Date Analyzed: 12/10/02

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: ____(u

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q

75-71-8Dichlorodifluoromethane	5	U
74-87-3Chloromethane		lυ
75-01-4Vinyl Chloride	5	U
74-83-9Bromomethane	5	Ū
75-00-3Chloroethane	5	Ū
75-69-4Trichlorofluoromethane	5	U
75-35-41,1-Dichloroethene	5	lŭ
75-15-0Carbon disulfide	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Ŭ
76-13-11,1,2-trichloro-1,2,2-triflu	5	Ŭ
67-64-1Acetone	13	lΰ
75-09-2Methylene Chloride	5	lΰ
156-60-5trans-1,2-Dichloroethene	5	ľŪ
1634-04-4Methyl-tert-butyl ether	5	Ü
75-34-31,1-Dichloroethane	5	Ü
156-59-2cis-1,2-Dichloroethene	5	ات
78-93-32-butanone		_
67-66-3Chloroform	5	Ü
71-55-61,1,1-Trichloroethane	5	บั
56-23-5Carbon Tetrachloride	Š	Ŭ
71-43-2Benzene	5 5 5	บั
107-06-21,2-Dichloroethane	ב י	บั
79-01-6Trichloroethene	5	บั
78-87-51,2-Dichloropropane	5	ប័
75-27-4Bromodichloromethane	5	บ
10061-01-5cis-1,3-Dichloropropene	5 5	U
108-10-14-Methyl-2-pentanone	13	Ü
108-88-3Toluene		J
10061-02-6trans-1,3-Dichloropropene	1	
79-00-51,1,2-Trichloroethane	5	
127-18-4Tetrachloroethene	5	U
591-78-62-hexanone	9	
124-48-1Dibromochloromethane	13	
106-93-41,2-Dibromoethane	5	Ü
Too by description of the second of the seco	5	U
FORM I VOA		

CLIENT SAMPLE NO.

SS-SB03-0

Lab Name: COMPUCHEM Method: 8260B

·

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: R2812

Matrix: (soil/water) SOIL Lab Sample ID: R2812-2

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R2812-2A52

Level: (low/med) LOW Date Received: 12/06/02

% Moisture: not dec. 3 Date Analyzed: 12/10/02

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (u

CONCENTRATION UNITS: CAS NO. COMPOUND (uq/L or uq/Kq) UG/KG 0 5 U 108-90-7-----Chlorobenzene 100-41-4-----Ethylbenzene 55555555555 15 U 100-42-5-----Styrene U 75-25-2-----Bromoform U 98-82-8-----Isopropyl Benzene U U U U U U U U 5 5 U U 108-87-2-----Methylcyclohexane U

SS-SB03-4

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: R2812

Matrix: (soil/water) SOIL Lab Sample ID: R2812-4

Sample wt/vol: 5.0 (q/mL) G Lab File ID: R2812-4A52

Level: (low/med) LOW Date Received: 12/06/02

% Moisture: not dec. 17
Date Analyzed: 12/10/02

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (ul

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q 75-71-8-----Dichlorodifluoromethane 74-87-3-----Chloromethane U 66666668 75-01-4-----Vinyl Chloride U 74-83-9-----Bromomethane U 75-00-3-----Chloroethane U 75-69-4----Trichlorofluoromethane U 75-35-4-----1,1-Dichloroethene U 75-15-0-----Carbon disulfide U 76-13-1----1,1,2-trichloro-1,2,2-triflu U 67-64-1-----Acetone J 6 75-09-2-----Methylene Chloride U 156-60-5----trans-1,2-Dichloroethene U 1634-04-4-----Methyl-tert-butyl ether 6 U 75-34-3----1,1-Dichloroethane 6 U 156-59-2----cis-1,2-Dichloroethene_ 6 U 78-93-3----2-butanone 15 U 67-66-3-----Chloroform 6 U 71-55-6-----1,1,1-Trichloroethane_ 6 U 56-23-5-----Carbon Tetrachloride 6 U 71-43-2----Benzene U 666666 107-06-2----1, 2-Dichloroethane U 79-01-6-----Trichloroethene U 78-87-5-----1,2-Dichloropropane Ū 75-27-4-----Bromodichloromethane U 10061-01-5----cis-1,3-Dichloropropene U 15 108-10-1-----4-Methyl-2-pentanone U 108-88-3-----Toluene 10061-02-6----trans-1,3-Dichloropropene U 6 6 U 79-00-5----1,1,2-Trichloroethane 6 U 127-18-4-----Tetrachloroethene 18 591-78-6----2-hexanone 15 T 124-48-1-----Dibromochloromethane U 6 106-93-4----1,2-Dibromoethane U 6 FORM I VOA

CLIENT SAMPLE NO.

SS-SB03-1

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: R2812

Matrix: (soil/water) SOIL Lab Sample ID: R2812-3

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R2812-3A52

Level: (low/med) LOW Date Received: 12/06/02

% Moisture: not dec. 5
Date Analyzed: 12/10/02

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uI

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or	ug/Kg)	UG/KG	Q
100-41-4 100-42-5 75-25-2 98-82-8 79-34-5 541-73-1 106-46-7 95-50-1 96-12-8 120-82-1 1330-20-7 110-82-7	ChlorobenzeneEthylbenzeneStyreneBromoformIsopropyl Ben1,1,2,2-Tetra1,3-Dichlorob1,4-Dichlorob1,2-Dichlorob1,2-Dibromo-31,2,4-TrichloXylene (totalMethyl acetatCyclohexaneMethylcyclohe	zene_ chloroethane_ enzene_ enzeneChloropropar robenzene_)_ e_	ne	55555555555555555555555555555555555555	טמטמטמטמטמטמטטטטטטטטטטטטטטטטטטטטטטטטטטט
			1		1

Method: 8260B Lab Name: COMPUCHEM

SS-SB04-0

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: R2812

Lab Sample ID: R2812-11 Matrix: (soil/water) SOIL

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R2812-11A59

Date Received: 12/06/02 Level: (low/med) LOW

Date Analyzed: 12/12/02 % Moisture: not dec. 9

Dilution Factor: 1.0 GC Column: ZB624 ID: 0.32 (mm)

Soil Extract Volume: (uL) Soil Aliquot Volume: ____(u

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG COMPOUND Q CAS NO.

			1
75-71-8Dichlorodifluoromethane	5	U	1
74-87-3	5		1
75-01-4Vinyl Chloride	5		1
74-83-9Bromomethane	5	Ū	1
75-00-3Chloroethane	5	Ū	l
75-69-4Trichlorofluoromethane	5	Ū	1
75-35-41,1-Dichloroethene	5	Ŭ	1
75-15-0Carbon disulfide	5	Ū]
76-13-11,1,2-trichloro-1,2,2-triflu	5	Ŭ	ł
67-64-1Acetone	17		1
75-09-2Methylene Chloride	5	JB	10
156-60-5trans-1,2-Dichloroethene	5	U	'-
1634-04-4Methyl-tert-butyl ether) II	Ŭ	ľ
75-34-31,1-Dichloroethane	5	Ŭ	
156-59-2cis-1,2-Dichloroethene	5	บั	1
78-93-32-butanone	14	บ	l
67-66-3Chloroform	5	ับ	1
71-55-61,1,1-Trichloroethane	5	Ŭ	ļ
56-23-5Carbon Tetrachloride	5	Ü]
71-43-2Benzene	5	Ŭ	
107-06-21,2-Dichloroethane	5	Ŭ	1
79-01-6Trichloroethene	5	Ŭ	l
78-87-51,2-Dichloropropane	5	บ	
75-27-4Bromodichloromethane	5	บี	1
10061-01-5cis-1,3-Dichloropropene	5 5	Ü	l
108-10-14-Methyl-2-pentanone	- 1	U	į .
108-88-3Toluene		JB	3
10061-02-6trans-1,3-Dichloropropene	2 5	UB	
79-00-51,1,2-Trichloroethane	5 5	Ü	1
127-18-4Tetrachloroethene		U	1
591-78-62-hexanone	120	U	l
124-48-1Dibromochloromethane	14	U	
106-93-41,2-Dibromoethane	5	Ū	1
100-32-41,2-DIDIOMOECHANE	5	U	1
FÖRM I VOA			1 (

CLIENT SAMPLE NO.

SS-SB03-4

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.: SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-4

Sample wt/vol:

5.0 (g/mL) G

Lab File ID: R2812-4A52

Level: (low/med) LOW

Date Received: 12/06/02

Date Analyzed: 12/10/02

% Moisture: not dec. 17

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: ____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/		Q
100-41-4 100-42-5 75-25-2 98-82-8 79-34-5 541-73-1 106-46-7 95-50-1 96-12-8 120-82-1 1330-20-7 110-82-7	ChlorobenzeneEthylbenzeneStyreneStyreneIsopropyl Ben1,2,2-Tetra1,4-Dichlorob1,2-Dichlorob1,2-Dibromo-31,2,4-TrichloXylene (totalKylene (totalCyclohexaneMethylcyclohe	zene chloroethane enzene enzene enzene -Chloropropane robenzene)	6 6 6 6 6 6 6 6 6 6 6 6 6	U U U

CLIENT SAMPLE NO.

SS-SB04-1

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-12

Sample wt/vol:

5.0 (g/mL) G

Lab File ID:

R2812-12A59

Level: (low/med) LOW

Date Received: 12/06/02

% Moisture: not dec. 9

Date Analyzed: 12/12/02

GC Column: ZB624

ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: ____(uL

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

0

75-71-8				
74-87-3	75-71-8Dichlorodifluoromethane	5	U	
75-01-4				}
74-83-9		Š	II	
75-00-3				
75-69-4Trichlorofluoromethane 75-35-41,1-Dichloroethene 75-15-0Carbon disulfide 76-13-11,1,2-trichloro-1,2,2-triflu 75-09-2				
75-35-4	75-69-4Trichlorofluoromethane			
75-15-0	75-35-41 1-Dichloroethene			1
76-13-11,1,2-trichloro-1,2,2-triflu 5 67-64-1Acetone 15 75-09-2Methylene Chloride 5 156-60-5trans-1,2-Dichloroethene 5 1634-04-4Methyl-tert-butyl ether 5 75-34-31,1-Dichloroethane 5 156-59-2cis-1,2-Dichloroethene 5 78-93-32-butanone 14 67-66-3Chloroform 5 71-55-61,1,1-Trichloroethane 5 56-23-5Carbon Tetrachloride 5 71-43-2Benzene 5 107-06-21,2-Dichloroethane 5 79-01-6Trichloroethane 5 79-01-6Trichloroethane 5 10061-01-5Bromodichloromethane 5 108-88-3Toluene 14 108-88-3	75-15-0Carbon digulfide			
67-64-1		זו		
75-09-2	67-64-1		U	1
156-60-5trans-1,2-Dichloroethene			710	1a
1634-04-4Methyl-tert-butyl ether 5 U 75-34-31,1-Dichloroethane 5 U 156-59-2cis-1,2-Dichloroethene 5 U 78-93-32-butanone 14 U 67-66-3Chloroform 5 U 71-55-61,1,1-Trichloroethane 5 U 56-23-5Carbon Tetrachloride 5 U 71-43-2Benzene 5 U 107-06-21,2-Dichloroethane 5 U 79-01-6Trichloroethene 5 U 78-87-51,2-Dichloropropane 5 U 75-27-4Bromodichloromethane 5 U 108-10-14-Methyl-2-pentanone 14 U 108-88-3Toluene 2 JB 10061-02-6trans-1,3-Dichloropropene 5 U 79-00-51,1,2-Trichloroethane 5 U 127-18-4Tetrachloroethene 5 J 591-78-6Dibromochloromethane 14 U 124-48-1Dibromochloromethane 5 U	156.60-5 trang 1 2 Dight or others			10
75-34-31,1-Dichloroethane 156-59-2cis-1,2-Dichloroethene 78-93-32-butanone 67-66-3Chloroform 71-55-61,1,1-Trichloroethane 56-23-5Carbon Tetrachloride 71-43-2Benzene 107-06-21,2-Dichloroethane 79-01-6Trichloroethene 78-87-51,2-Dichloropropane 75-27-4Bromodichloromethane 10061-01-5Sromodichloromethane 108-88-3Toluene 108-88-3Toluene 109-00-51,1,2-Trichloroethane 127-18-4Tetrachloroethane 127-18-4Tetrachloroethane 124-48-1Dibromochloromethane	1624 04 4 Mathyl tast butyl at ber		U	
156-59-2cis-1,2-Dichloroethene 5 U 78-93-32-butanone 14 U 67-66-3Chloroform 5 U 71-55-61,1,1-Trichloroethane 5 U 56-23-5Carbon Tetrachloride 5 U 71-43-2Benzene 5 U 107-06-21,2-Dichloroethane 5 U 78-87-51,2-Dichloropropane 5 U 78-87-5Bromodichloromethane 5 U 10061-01-5Bromodichloromethane 5 U 108-10-1	7C 34 3			ł
78-93-32-butanone 14 U 67-66-3Chloroform 5 U 71-55-61,1,1-Trichloroethane 5 U 56-23-5Carbon Tetrachloride 5 U 71-43-2Benzene 5 U 107-06-21,2-Dichloroethane 5 U 79-01-6Trichloroethene 5 U 78-87-51,2-Dichloropropane 5 U 75-27-4Bromodichloromethane 5 U 108-10-14-Methyl-2-pentanone 14 U 108-88-3Toluene 2 JB 10061-02-6trans-1,3-Dichloropropene 5 U 79-00-51,1,2-Trichloroethane 5 U 127-18-4Tetrachloroethene 5 J 591-78-6Dibromochloromethane 14 U	/5-34-31,1-picnioroetnane			l
67-66-3	156-59-2cis-1,2-Dichioroethene	-	_	
71-55-6	78-93-32-butanone			İ
56-23-5Carbon Tetrachloride 5 U 71-43-2Benzene 5 U 107-06-21,2-Dichloroethane 5 U 79-01-6Trichloroethene 5 U 78-87-51,2-Dichloropropane 5 U 75-27-4Bromodichloromethane 5 U 10061-01-5is-1,3-Dichloropropene 5 U 108-88-3Toluene 2 JB 10061-02-6trans-1,3-Dichloropropene 5 U 79-00-51,1,2-Trichloroethane 5 U 127-18-4Tetrachloroethene 5 J 591-78-6Dibromochloromethane 14 U	67-66-3Chloroform			İ
71-43-2	71-55-61,1,1-Trichloroethane			ł
107-06-21,2-Dichloroethane 79-01-6Trichloroethene 78-87-51,2-Dichloropropane 75-27-4Bromodichloromethane 10061-01-5cis-1,3-Dichloropropene 108-10-14-Methyl-2-pentanone 108-88-3Toluene 10061-02-6trans-1,3-Dichloropropene 79-00-51,1,2-Trichloroethane 127-18-4Tetrachloroethene 5 U C C C C C C C C C C C C C	56-23-5Carbon Tetrachloride	5		l
107-06-21,2-Dichloroethane 5 79-01-6Trichloroethene 5 78-87-51,2-Dichloropropane 5 75-27-4Bromodichloromethane 5 10061-01-5is-1,3-Dichloropropene 5 108-10-14-Methyl-2-pentanone 14 108-88-3Toluene 2 10061-02-6trans-1,3-Dichloropropene 5 79-00-51,1,2-Trichloroethane 5 127-18-4Tetrachloroethene 5 591-78-62-hexanone 14 124-48-1Dibromochloromethane 5		5		!
79-01-6Trichloroethene	107-06-21,2-Dichloroethane	5		1
78-87-51,2-Dichloropropane	79-01-6Trichloroethene	5	U .	l
75-27-4Bromodichloromethane	78-87-51,2-Dichloropropane	5	U	l
10061-01-5cis-1,3-Dichloropropene	75-27-4Bromodichloromethane		U	1
108-10-14-Methyl-2-pentanone 14 U 108-88-3Toluene 2 JB 10061-02-6trans-1,3-Dichloropropene 5 U 79-00-51,1,2-Trichloroethane 5 J 127-18-4Tetrachloroethene 5 J 591-78-62-hexanone 14 U 124-48-1Dibromochloromethane 5 U	10061-01-5cis-1,3-Dichloropropene	5	U	l
108-88-3Toluene 2 JB 10061-02-6trans-1,3-Dichloropropene 5 U 79-00-51,1,2-Trichloroethane 5 U 127-18-4Tetrachloroethene 5 J 591-78-62-hexanone 14 U 124-48-1Dibromochloromethane 5 U	108-10-14-Methyl-2-pentanone			١.
10061-02-6trans-1,3-Dichloropropene 5 U 79-00-51,1,2-Trichloroethane 5 U 127-18-4Tetrachloroethene 5 J 591-78-62-hexanone 14 U 124-48-1Dibromochloromethane 5 U	108-88-3Toluene			B
79-00-51,1,2-Trichloroethane 5 U 127-18-4Tetrachloroethene 5 J 5 U 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10061-02-6trans-1,3-Dichloropropene			l
127-18-4Tetrachloroethene 5 J 591-78-62-hexanone 14 U 124-48-1Dibromochloromethane 5 U	79-00-51,1,2-Trichloroethane			l
591-78-62-hexanone 14 U 124-48-1Dibromochloromethane 5 U	127-18-4Tetrachloroethene			l
124-48-1Dibromochloromethane	591-78-62-hexanone	<u>-</u>	_	l
106-93-41,2-Dibromoethane5U	124-48-1Dibromochloromethane	ا ا ا	_	
1,2 2121011000114110	106-93-41.2-Dibromoethane	2	· •	l
	Z / W D A D T O MO CO MAIL	٦		

FORM I VOA

CLIENT SAMPLE NO.

SS-SB04-0

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-11

Sample wt/vol:

5.0 (g/mL) G

Lab File ID: R2812-11A59

Level: (low/med) LOW

Date Received: 12/06/02

% Moisture: not dec. 9

Date Analyzed: 12/12/02

GC Column: ZB624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ___ (uL)

Soil Aliquot Volume: ____(uL

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q

108-90-7	សសសសសសសសភាសស ស	7.00 6.00 6.00 6.00 6.00 6.00 6.00 6.00
----------	-------------------	--

CLIENT SAMPLE NO.

SS-SB04-4

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY

Case No.: SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-13

Sample wt/vol:

5.0 (g/mL) G

Lab File ID:

R2812-13A59

Level:

(low/med) LOW

Date Received: 12/06/02

% Moisture: not dec. 19

Date Analyzed: 12/12/02

GC Column: ZB624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: _____(u

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

			<u> </u>	ı
75 -7 1-8	Dichlorodifluoromethane	6	ט	1
74-87-3	Chloromethane	6	Ü	1
75-01-4	Vinyl Chloride	Ğ	บั	1
74-83-9	Bromomethane	6	Ū	İ
75-00-3	Chloroethane	6	Ū	
75-69-4	Trichlorofluoromethane	6	บั	
75-35-4	1,1-Dichloroethene	Ğ	บั	
75-15-0	Carbon disulfide	Ğ	Ŭ	
76-13-1	1,1,2-trichloro-1,2,2-triflu	0.8	_	
67-64-1	Acetone	16		ŀ
75-09-2	Methylene Chloride	7	B	10
156-60-5	trans-1,2-Dichloroethene	6		
1634-04-4	Methyl-tert-butyl ether	Ğ	Ŭ	1
75-34-3	1,1-Dichloroethane	6	Ū	
156-59-2	cis-1,2-Dichloroethene	6	Ü	-
78-93-3	2-butanone	15		
67-66-3	Chloroform	6	Ū	
71-55-6	1,1,1-Trichloroethane	6	Ū	
56-23-5	Carbon Tetrachloride	6	Ŭ	l
71-43-2	Benzene	6	Ū	}
107-06-2	1,2-Dichloroethane	6	Ŭ]
79-01-6	Trichloroethene	6	Ū	1
78-87-5	1,2-Dichloropropane	6	Ŭ	l
75-27-4	Bromodichloromethane	6	Ū	
10061-01-5	cis-1,3-Dichloropropene	6	Ū	1
108-10-1	4-Methyl-2-pentanone	15	-	
108-88-3	Toluene	2	JВ	B
10061-02-6	trans-1,3-Dichloropropene	6	U	
79-00-5	1,1,2-Trichloroethane	6	-	
127-18-4	Tetrachloroethene	13	•	ĺ
591-78-6	2-hexanone	15	Ū	1
124-48-1	Dibromochloromethane		Ü	1
106-93-4	1,2-Dibromoethane	- 1	Ŭ	
		"	-	
-	FORM I VOA			

CLIENT SAMPLE NO.

SS-SB04-1 Lab Name: COMPUCHEM Method: 8260B Lab Code: LIBRTY Case No.: SAS No.: SDG No.: R2812 Matrix: (soil/water) SOIL Lab Sample ID: R2812-12 Sample wt/vol: 5.0 (q/mL) G Lab File ID: R2812-12A59 Level: (low/med) LOW Date Received: 12/06/02 Moisture: not dec. 9 Date Analyzed: 12/12/02 3C Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0 30il Extract Volume: (uL) Soil Aliquot Volume: ____(uL CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

108-90-7Chlorobenzene	5	U
100-41-4Ethylbenzene	5	บั
100-42-5Styrene	5	Ŭ
75-25-2Bromoform	5	บั
98-82-8Isopropyl Benzene	5	Ū
79-34-51,1,2,2-Tetrachloroethane	5	ប
541-73-11,3-Dichlorobenzene	5	U
106-46-71,4-Dichlorobenzene	5	U
95-50-11,2-Dichlorobenzene	5	U
96-12-81,2-Dibromo-3-Chloropropane	5	U
120-82-11,2,4-Trichlorobenzene -	5	U
1330-20-7Xylene (total)	16	U
79-20-9Methyl acetate	5	U
110-82-7Cyclohexane	5	U
108-87-2Methylcyclohexane	5	U

SS-SB05-0

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-14

Sample wt/vol: 5.0 (q/mL) G

Lab File ID: R2812-14A59

Level: (low/med) LOW

Date Received: 12/06/02

% Moisture: not dec. 6

Date Analyzed: 12/12/02

GC Column: ZB624 ID: 0.32 (mm)

Dilution Factor: 1.0

CONCENTRATION UNITS:

Soil Extract Volume: (uL)

Soil Aliquot Volume: ____(uL

CAS NO.	COMPOUND	(ug/L or	ug/Kg)	UG/KG	Q	
75-71-8	Dichlorodiflu	oromethane			5 U	
74-87-3	Chioromethane				5 ซ	İ
75-01-4	Vinyl Chlorid	e		į	5 U	
14-83-9	Bromomethane_			1	5 U	1
/5-00-3	Chloroethane		!	1	5 U	
75-69-4	Trichlorofluo	romethane	······································		0 0 0 0 0 0	
75-35-4	1,1-Dichloroe	thene			5 U	ł
75-15-0	Carbon disulf	ide			5 บ	}
76-13-1	1,1,2-trichlo	ro-1,2,2-tri	Elu	į	5 U	1
67-64-1	Acetone			14		
75-09-2	Methylene Chl	oride		Ĩ	JB	16
156-60-5	trans-1,2-Dic	nloroethene			5 U	
1634-04-4	Methyl-tert-b	utyl ether $\overline{}$		į	5 U	
75-34-3	1,1-Dichloroes	thane		£ 1	งไบ	1
156-59-2	cis-1,2-Dichlo	proethene		Ę	្រ	
78-93-3	2-butanone				ט (נ	-
	Chloroform					
71-55-6	1,1,1-Trichlo	roethane		ğ	lū	
56-23-5	Carbon Tetracl	nloride		9	ប	
71-43-2	Benzene			-	ΙŪ	
107-06-2	1,2-Dichloroet	hane		ū	Ü	
79-01-6	Trichloroether	ne		ŗ	ปี	
78-87-5	1,2-Dichlorop	copane		č	Ü	1
75-27-4	Bromodichloror	nethane			Ū	1
10061-01-5	cis-1,3-Dichlo	propropene			֓֟֟֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	1
108-10-1	4-Methyl-2-per	ntanone		13	Ü	
1 108-88-3	Toluene	<u></u>				10
10061-02-6	trans-1,3-Dic	loropropene		2	บ็	-
79-00-5	1,1,2-Trichlo	coet.hane			Ιŭ	
127-18-4	Tetrachloroeth	iene		26		
591-78-6	2-hexanone	· - · · · · · · · · · · · · · · · · · · ·			Ü	·
124-48-1	Dibromochlorom	nethane		5		
106-93-4	1,2-Dibromoeth	nane		5		İ .
1	, =====================================			J		
I	FORM]	VOA			.	ا عراً يمان

CLIENT SAMPLE NO.

SS-SB04-4 Lab Name: COMPUCHEM Method: 8260B Lab Code: LIBRTY Case No.: SAS No.: SDG No.: R2812 Matrix: (soil/water) SOIL Lab Sample ID: R2812-13 Sample wt/vol: 5.0 (g/mL) G Lab File ID: R2812-13A59 Level: (low/med) LOW Date Received: 12/06/02 % Moisture: not dec. 19 Date Analyzed: 12/12/02 GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0 Soil Extract Volume: ____(uL) Soil Aliquot Volume: _____(u CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG 0

CLIENT SAMPLE NO.

SS-SB05-1

Lab Name: COMPUCHEM

Lab Code: LIBRTY Case No.:

Method: 8260B

SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-15

Sample wt/vol:

5.0 (g/mL) G

Lab File ID: R2812-15A59

Level: (low/med) LOW Date Received: 12/06/02

% Moisture: not dec. 6

Date Analyzed: 12/12/02

GC Column: ZB624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: ____(u

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

1			•
75-71-8Dichlorodifluoromethane	5	U	
74-87-3Chloromethane	5	Ū	į
75-01-4Vinyl Chloride	5	ับ	
74-83-9Bromomethane	5	U	
75-00-3Chloroethane	5	U	
75-69-4Trichlorofluoromethane	5	U	
75-35-41,1-Dichloroethene	5	U	i
75-15-0Carbon disulfide	5	U	
76-13-11,1,2-trichloro-1,2,2-triflu	0.7	J	
67-64-1Acetone	12		
75-09-2Methylene Chloride	4	JB	B
156-60-5trans-1,2-Dichloroethene	5		
1634-04-4Methyl-tert-butyl ether	5		
75-34-31,1-Dichloroethane	5		1
156-59-2cis-1,2-Dichloroethene		U	
78-93-32-butanone	13	Ŭ	i
67-66-3Chloroform	5	U	ĺ
71-55-61,1,1-Trichloroethane	5	U	ĺ
56-23-5Carbon Tetrachloride	5	U	İ
71-43-2Benzene		U	İ
107-06-21,2-Dichloroethane	5	U	İ
79-01-6Trichloroethene		U	l
78-87-51,2-Dichloropropane	5 5 5	ט	İ
75-27-4Bromodichloromethane	5	U	ĺ
10061-01-5cis-1,3-Dichloropropene	5	U	ĺ
108-10-14-Methyl-2-pentanone	13	U	
108-88-3Toluene	2	JB	め
10061-02-6trans-1,3-Dichloropropene		U	
79-00-51,1,2-Trichloroethane —		U	
127-18-4Tetrachloroethene		υ	!
591-78-62-hexanone		U	
124-48-1Dibromochloromethane	5	Ū	
106-93-41,2-Dibromoethane		U	
			İ
FORM I VOA			

FORM I VOA

s/ula

CLIENT SAMPLE NO.

SS-SB05-0

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-14

Sample wt/vol:

5.0 (g/mL) G

Lab File ID: R2812-14A59

Level: (low/med) LOW

Date Received: 12/06/02

% Moisture: not dec. 6

Date Analyzed: 12/12/02

GC Column: ZB624 ID: 0.32 (mm)

Soil Extract Volume: ____(uL)

Dilution Factor: 1.0

Soil Aliquot Volume: ____(u

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q

		
108-90-7Chlorobenzene	5	ט
100-41-4Ethylbenzene	5	Ū
100-42-5Styrene	5	ไซ
75-25-2Bromoform	5	lσ
98-82-8Isopropyl Benzene	5	U
79-34-51,1,2,2-Tetrachloroethane	5	U
541-73-11,3-Dichlorobenzene	5	U
106-46-71,4-Dichlorobenzene	5.	U
95-50-11,2-Dichlorobenzene	5	U
96-12-81,2-Dibromo-3-Chloropropane	5	U
120-82-11,2,4-Trichlorobenzene	5	U
1330-20-7Xylene (total)	16	U
79-20-9Methyl acetate	5	U
110-82-7Cyclohexane	5	U
108-87-2Methylcyclohexane	5	U

SS-SB05-4 Method: 8260B

Lab Name: COMPUCHEM Method: 8260

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: R2812

Matrix: (soil/water) SOIL Lab Sample ID: R2812-16

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R2812-16A59

Level: (low/med) LOW Date Received: 12/06/02

% Moisture: not dec. 19 Date Analyzed: 12/12/02

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(u

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

74-87-3 Chloromethane 6 U 75-01-4 Vinyl Chloride 6 U 74-83-9 Bromomethane 6 U 75-00-3 Chloroethane 6 U 75-69-4 Trichloroethane 6 U 75-15-0 Carbon disulfide 6 U 75-15-0 Carbon disulfide 6 U 76-13-1 1,1,2-trichloro-1,2,2-triflu 0.8 J 67-64-1 Acetone 15 J 75-09-2	5-71-8	Dichlorodifluoromethane	6	ט	
75-01-4				บั	
74-83-9					
75-00-3	4-83-9	Bromomethane			
75-69-4Trichlorofluoromethane					
1				U	1
75-15-0					
10.61 1.00	5-15-0	Carbon disulfide			i
15 J	6-13-1	1 1 2-trichloro-1 2 2-triflu			
7 B 156-60-5					
156-60-5trans-1,2-Dichloroethene					B
1634-04-4	56-60-5	trans-1 2-Dichloroethene			"
156-59-2					
156-59-2					}
15 U U 15 U U 15 U U U U U U U U U	5 C EQ 2	cis-1 2-Dichloroethene			ļ
67-66-3					
71-55-61,1,1-Trichloroethane 66-23-5Carbon Tetrachloride 71-43-2Benzene 607-06-21,2-Dichloroethane 79-01-6Trichloroethene 78-87-5Bromodichloromethane 79-27-4Bromodichloromethane 79-01-5					
56-23-5Carbon Tetrachloride 6 71-43-2Benzene 6 107-06-21,2-Dichloroethane 6 79-01-6Trichloroethene 6 78-87-51,2-Dichloropropane 6 75-27-4Bromodichloromethane 6 10061-01-5cis-1,3-Dichloropropene 6 108-10-14-Methyl-2-pentanone 15 108-88-3Toluene 2 109-00-51,1,2-Trichloropropene 6 79-00-51,1,2-Trichloroethane 6 127-18-4Tetrachloroethene 3 591-78-62-hexanone 15 124-48-1Dibromochloromethane 6					
71-43-2Benzene 6 U 107-06-21,2-Dichloroethane 6 U 79-01-6Trichloroethene 6 U 78-87-51,2-Dichloropropane 6 U 75-27-4Bromodichloromethane 6 U 10061-01-5cis-1,3-Dichloropropene 6 U 108-10-14-Methyl-2-pentanone 15 U 108-88-3Toluene 2 JB 10061-02-6trans-1,3-Dichloropropene 6 U 79-00-51,1,2-Trichloroethane 6 U 127-18-4Tetrachloroethene 3 J 591-78-6Dibromochloromethane 6 U					
107-06-21, 2-Dichloroethane 6 79-01-6Trichloroethene 6 78-87-51, 2-Dichloropropane 6 75-27-4Bromodichloromethane 6 10061-01-5cis-1, 3-Dichloropropene 6 108-10-14-Methyl-2-pentanone 15 108-88-3Toluene 2 10061-02-6trans-1, 3-Dichloropropene 6 79-00-51, 1, 2-Trichloroethane 6 127-18-4Tetrachloroethene 3 591-78-6Dibromochloromethane 6					1
79-01-6Trichloroethene 6 U 78-87-51,2-Dichloropropane 6 U 75-27-4Bromodichloromethane 6 U 10061-01-5is-1,3-Dichloropropene 6 U 108-10-14-Methyl-2-pentanone 15 U 108-88-3Toluene 2 JB 10061-02-6trans-1,3-Dichloropropene 6 U 79-00-51,1,2-Trichloroethane 6 U 127-18-4Tetrachloroethene 3 J 1591-78-62-hexanone 15 U 124-48-1Dibromochloromethane 6 U					
78-87-51, 2-Dichloropropane 6 75-27-4Bromodichloromethane 6 10061-01-5cis-1, 3-Dichloropropene 6 108-88-3Toluene 2 10061-02-6trans-1, 3-Dichloropropene 6 179-00-51, 1, 2-Trichloroethane 6 127-18-4Tetrachloroethene 3 1591-78-6Dibromochloromethane 6	0 01 6	Trighleroothere			
15-27-4Bromodichloromethane				1	- 1
10061-01-5cis-1,3-Dichloropropene 6 U 108-10-14-Methyl-2-pentanone 15 U 108-88-3Toluene 2 JB 10061-02-6trans-1,3-Dichloropropene 6 U 79-00-51,1,2-Trichloroethane 6 U 127-18-4Tetrachloroethene 3 J 591-78-6Dibromochloromethane 15 U	8-8/-5 5 27 4	Promodiable remethans		-	1
108-10-14-Methyl-2-pentanone 15 U 108-88-3Toluene 2 JB 10061-02-6trans-1,3-Dichloropropene 6 U 79-00-51,1,2-Trichloroethane 6 U 127-18-4Tetrachloroethene 3 J 591-78-62-hexanone 15 U 124-48-1Dibromochloromethane 6 U					
108-88-3Toluene 2 JB 10061-02-6trans-1,3-Dichloropropene 6 U 79-00-51,1,2-Trichloroethane 6 U 127-18-4Tetrachloroethene 3 J 591-78-62-hexanone 15 U 124-48-1Dibromochloromethane 6 U	0061-01-5	4 Mothyl 2 nontange		-	1
10061-02-6trans-1,3-Dichloropropene 6 U 79-00-51,1,2-Trichloroethane 6 U 127-18-4Tetrachloroethene 3 J 591-78-62-hexanone 15 U 124-48-1Dibromochloromethane 6 U					B
79-00-51,1,2-Trichloroethane 6 U 27-18-4Tetrachloroethene 3 J 591-78-62-hexanone 15 U 24-48-1Dibromochloromethane 6 U					10
127-18-4Tetrachloroethene	0061-02-6	trans-1,3-Dichioropropene		-	
591-78-62-hexanone 15 U 124-48-1Dibromochloromethane 6 U				-	
24-48-1Dibromochloromethane 6 U					
					ļ
					1
L06-93-4	06-93-4	1,2-Dibromoethane	6	U	1

68

CLIENT SAMPLE NO.

SS-SB05-1 Method: 8260B Lab Name: COMPUCHEM SAS No.: SDG No.: R2812 Lab Code: LIBRTY Case No.: Matrix: (soil/water) SOIL Lab Sample ID: R2812-15 Sample wt/vol: 5.0 (g/mL) GLab File ID: R2812-15A59 Level: (low/med) LOW Date Received: 12/06/02 % Moisture: not dec. 6 Date Analyzed: 12/12/02 GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0 Soil Aliquot Volume: ____(u Soil Extract Volume: ____(uL) CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q CAS NO. COMPOUND 5 U 108-90-7-----Chlorobenzene 5 U

100-41-4-----Ethylbenzene 100-42-5-----Styrene 75-25-2-----Bromoform 5 | U 5 U 98-82-8------Isopropyl Benzene 79-34-5------1,1,2,2-Tetrachloroethane 541-73-1-----1,3-Dichlorobenzene 5 | U 5 U 5 | U 106-46-7-----1,4-Dichlorobenzene 5 | U 95-50-1-----1,2-Dichlorobenzene 5 U 5 U 5 U 96-12-8-----1,2-Dibromo-3-Chloropropane 120-82-1----1,2,4-Trichlorobenzene 1330-20-7-----Xylene (total) 16 U 79-20-9-----Methyl acetate____ 5 U 110-82-7-----Cyclohexane 5 U 108-87-2-----Methylcyclohexane 5 U

CLIENT SAMPLE NO.

Lab File ID:

SSMW10-1

R2812-1RA59

Lab Name: COMPUCHEM Method: 8260B

4.20(g/mL) G

Sample wt/vol:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: R2812

Matrix: (soil/water) SOIL Lab Sample ID: R2812-1

Level: (low/med) LOW Date Received: 12/04/02

% Moisture: not dec. 9
Date Analyzed: 12/11/02

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(u

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/kg) UG/kG

CAS NO.	COMPOUND (ug/L or ug	/Kg) UG/KG		Q	
75-71-8	Dichlorodifluoromethane		7	U	us
74-87-3	Chloromethane	• [Ū	1
75-01-4	Vinyl Chloride	•		บั	1 (
74~83~9	Bromomethane	• }	7	Ü	
	Chloroethane	•	7	υ	11
	Trichlorofluoromethane	· }	7	Ŭ	
	1,1-Dichloroethene	1	7	1 -	
	Carbon disulfide	•	6		1 7
	1,1,2-trichloro- $1,2,2$ -triflu	· [JВ	١Ă
67-64-1			16		1 3
75-09-2	Methylene Chloride	·		JВ	45656 US
156-60-5	trans-1,2-Dichloroethene	•	7	U	15
1634-04-4	Methyl-tert-butyl ether	· [7	Ü	100
75-34-3	1,1-Dichloroethane		7	Ιŭ	11
156-59-2	cis-1,2-Dichloroethene	•		Ŭ	11
78-93-3	2-butanone	•	16		1 1
67-66-3	Chloroform		7	Ŭ	1 1
	1,1,1-Trichloroethane		7	Ü	
56-23-5	Carbon Tetrachloride		7	Ü	11
71-43-2	Benzene		7	บั	1 (
	1,2-Dichloroethane		7	Ū	1 1
79-01-6	Trichloroethene	•	7	Ū	
78-87-5	1,2-Dichloropropane		7	Ŭ	1 1
75-27-4	Bromodichloromethane		7	Ü	11
10061-01-5	cis-1,3-Dichloropropene		7	Ŭ	1 (
108-10-1	4-Methyl-2-pentanone		16	_	↓
108-88-3	Toluene		2	ĴВ	B_
10061-02-6	trans-1,3-Dichloropropene		7	U	u5
79-00-5	1,1,2-Trichloroethane			IJ	11.
127-18-4	Tetrachloroethene			Ŭ	\mathbb{H}
	2-hexanone		16		
124-48-1	Dibromochloromethane		7	Ü	
106-93-4	1,2-Dibromoethane		7	Ŭ	
	FORM I VOA	l			-
					3/

CLIENT SAMPLE NO.

SS-SB05-4

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: R2812

Matrix: (soil/water) SOIL Lab Sample ID: R2812-16

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R2812-16A59

Level: (low/med) LOW Date Received: 12/06/02

% Moisture: not dec. 19 Date Analyzed: 12/12/02

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(u

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

108-90-7-----Chlorobenzene 6 U
100-41-4----Ethylbenzene 6 U
100-42-5----Styrene 6 U

100-42-5-----Styrene 75-25-2-----Bromoform U 6 98-82-8-----Isopropyl Benzene U 6 79-34-5----1,1,2,2-Tetrachloroethane 6 U 541-73-1----1,3-Dichlorobenzene 6 U 106-46-7----1,4-Dichlorobenzene 6 U 95-50-1----1,2-Dichlorobenzene 6 U 96-12-8----1,2-Dibromo-3-Chloropropane 6 U 120-82-1-----1,2,4-Trichlorobenzene 6 U 1330-20-7-----Xylene (total) 79-20-9-----Methyl acetate 19 U 6 U 6 U 108-87-2-----Methylcyclohexane 6 U

FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

6\$MW05\$S

Contract: 8260B

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

5.0 (g/mL) G

Lab File ID: R2812-18A52

Sample wt/vol:

Level: (low/med) LOW

Date Received: 12/12/02

Lab Sample ID: R2812-18

% Moisture: not dec. 21

Date Analyzed: 12/19/02

GC Column: EQUITY624 ID: 0.53 (mm)

Number TICs found: 0

Dilution Factor: 1.0

Soil Aliquot Volume: ____(u

Soil Extract Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	*********	=======	=========	====
1				·
3	······································			
4.				
5.				
6.				
7.				-
8				
9.				
10				
14.				
* J ·				
				
15				
16				
17.				
18.				
19.				
20.				
C T • 1				
22.			~	
23				
24				
25	· · · · · · · · · · · · · · · · · · ·		`i	
26				
<u>.</u> , .				
29.				
30				

CLIENT SAMPLE NO.

SSMW10-1 Lab Name: COMPUCHEM Method: 8260B Lab Code: LIBRTY Case No.: SAS No.: SDG No.: R2812 Matrix: (soil/water) SOIL Lab Sample ID: R2812-1 4.20(q/mL) G Lab File ID: Sample wt/vol: R2812-1RA59 Date Received: 12/04/02 Level: (low/med) LOW Date Analyzed: 12/11/02 % Moisture: not dec. 9 GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0 Soil Extract Volume: ____(uL) Soil Aliquot Volume: _____(u CONCENTRATION UNITS: CAS NO. COMPOUND (uq/L or uq/Kq) UG/KG 0 UJ 108-90-7-----Chlorobenzene 7 | U 100-41-4----Ethylbenzene 7 U 100-42-5-----Styrene 7 U 75-25-2-----Bromoform_ 7 U 98-82-8----Isopropyl Benzene 777777377 U 79-34-5-----1,1,2,2-Tetrachloroethane_ 541-73-1----1,3-Dichlorobenzene U U U U U U J U U 7

FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Lab	Name:	COMPUCHEM
	TACKIII .	COLL OCHER

Contract: 8260B

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-19

Sample wt/vol:

Lab File ID: R2812-19A52

Number TICs found: 0

5.0 (g/mL) G

Level: (low/med)

LOW

Date Received: 12/12/02

Date Analyzed: 12/19/02

% Moisture: not dec. 20

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Aliquot Volume: (u)

Soil Extract Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1 -				
1		-		
3.		-		
4:		-		
5.		-		
		-		
		-		
		-		
8.		-		
10.		-		
11.				
± 2 • 1				
		-		
		-		
1 0.		-		
		-		
10.		_		
17.				
20				
21.			l	
22.				
		_		
43.				
20.				
27.				
28.				
29.				
30				
				

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

LdMW06

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM	Contract: 8260B	6dwm0e
Lab Code: LIBRTY Case No.:	SAS No.:	SDG No.: R2812
Matrix: (soil/water) SOIL	Lab Sam	ple ID: R2812-20 3

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R2812-20A52

Level: (low/med) LOW Date Received: 12/12/02 % Moisture: not dec. 20 Date Analyzed: 12/19/02

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: ____(uI

CONCENTRATION UNITS: Number TICs found: 0 (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	0
			======================================	. –
1.				
2.		ļ 		
2		l ———		
] 3		ļ		
4.				
5		İ		
6				
7		_		
8.				
9.				
10				
11.				
13				
13.				
1 14.				
1 10.				
1 10.				
 				1
18.				
19.				
20.				
21				
22.				
23		- 	· 	
23.				
24				
25.				
26.				
21.				
28.				
29.				
30.				
				
·				

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SS-SB01-0	

Lab Name: COMPUCHEM

Lab Code: LIBRTY

Contract: 8260B

SAS No.:

Case No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-8

Sample wt/vol:

5.0 (g/mL) G

Lab File ID: R2812-8RA59

Level: (low/med) LOW Date Received: 12/06/02

% Moisture: not dec. 1

Date Analyzed: 12/12/02

GC Column: ZB624

ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: ____(ul

CONCENTRATION UNITS: Number TICs found: 0 (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1				
4.				
3.				
4.		·		
J.				
0.				
/ •				
3.				
10.				
11.				
12.				
1 J .				
7 .				
10.				
.				
10.				
19.				
20.				
21				
44.				
2.7.				
27.				
25. 26.		 ,		
27				
28.				
29.				
30.			 	
				

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SS-MW11-0

Lab Name: COMPUCHEM

Number TICs found: 0

Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: R2812

Lab Sample ID: R2812-17 Matrix: (soil/water) SOIL

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R2812-17A59

Level: (low/med) Date Received: 12/06/02 LOW

% Moisture: not dec. 9 Date Analyzed: 12/12/02

ID: 0.32 (mm) Dilution Factor: 1.0 GC Column: ZB624

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(ul

> CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME		EST. CONC.	Q
1				
3.			·	
4.				
5.				
6				
7.				
8				
9.				
10.				
L.L		\ <u></u>		
12.				
13.				
L T .				
L / -				-
10.				
20.				
21.				
22.				
23.				
34 . I				_
25.				
<i>41</i> •				
-0.				
29.		-		
30.		\ 		

FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-10

Sample wt/vol:

5.0 (g/mL) G

Lab File ID: R2812-10A59

Level: (low/med) LOW

Date Received: 12/06/02

% Moisture: not dec. 20

Date Analyzed: 12/12/02

GC Column: ZB624

ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: ____(u

CONCENTRATION UNITS: Number TICs found: 0 (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1			=========	
. 4.				
4 •				
J				
6				
8.				
9.		l		
10.		·		·
1 11.			· <u></u>	
12.				
1 1 .				
1 1 T .				
1				
10.				
17.				
19.				
44.				
44,				
25.				
26. 27.				
28.				
30				

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SS-SB01-1	ļ

Lab	Name:	COMPUCHEM
цаи	name:	COMPOUNDIN

Contract: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-9

Sample wt/vol:

5.0 (g/mL) G

Lab File ID: R2812-9A59

Level: (low/med) LOW

Date Received: 12/06/02

% Moisture: not dec. 5

Number TICs found: 2

Date Analyzed: 12/12/02

GC Column: ZB624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: ____(u

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

3/11/5	۲,
3/260	~

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SS-SB02-1 Contract: 8260B

Lab Name: COMPUCHEM

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-6

Sample wt/vol:

5.0 (g/mL) G

Lab File ID:

R2812-6RA59

Level:

(low/med)

LOW

Date Received: 12/06/02

% Moisture: not dec. 8

Date Analyzed: 12/12/02

GC Column: ZB624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Number TICs found: 0

Soil Aliquot Volume: ____(u)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	******************	= ======	=========	===
1		_		
2		-		
3.4.		_		
5				
6.				
7.				 -
8				
9.		-		
0				
1.				
3				
4		_		
5				
.6.				
7.				
.8		- · · · · · - · - · - · · · · · · · · 		
.9				
20.				
12.				
22				
23		_		
24		_		
25				
6		_		
7.				
8		-		
9.		-		

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SS-SB02-0

Lab	Name:	COMPUCHEM		Contract:	8260B		
	_		 				

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: R2812

Matrix: (soil/water) SOIL Lab Sample ID: R2812-5

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R2812-5A52

Level: (low/med) LOW Date Received: 12/06/02

% Moisture: not dec. 3 Date Analyzed: 12/10/02

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (ul

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=======================================		=======		=====
1		ļ		
4.		ļ		
"1.				
5.				
0.		l	l	
/ •				
8				
10.				
11.				
14.				
10.		l		
T-I -				
' 13.				
10,				
± / •				
18.				
19.				
20.				
41.				
44.				
4 4.				
43.				
26.				
41.				
20.			-	
29.			 	
30				
				

FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SS-SB03-0

Lab Name:	COMPUCHEM	Contract:	8260B	1

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: R2812

Matrix: (soil/water) SOIL Lab Sample ID: R2812-2

Sample wt/vol: 5.0 (g/mL) G Lab File ID: R2812-2A52

Level: (low/med) LOW Date Received: 12/06/02

% Moisture: not dec. 3 Date Analyzed: 12/10/02

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Number TICs found: 0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1				
3.				
7.				ļ ———
5				
6. 7.				l ———
U •				
9				
11.				
12.				
14.				
16.				
10.				
IJ.				
20.		· 		
44.				
23				
4 3.				
40.				
27.				
29.				
30				

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SS-SB02-4

Lab Name:	COMPUCHEM		Contract: 8260B			
Lab Code:	LIBRTY	Case No.:	SAS No.:	SDG	No.:	R2812

Lab Sample ID: R2812-7 Matrix: (soil/water) SOIL

Sample wt/vol: 5.0 (g/mL) GLab File ID: R2812-7A59

Level: (low/med) LOW Date Received: 12/06/02

% Moisture: not dec. 20 Date Analyzed: 12/12/02

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Aliquot Volume: ____(uI Soil Extract Volume: (uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) ug/Kg

		T	1	, ,
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	
=======================================		======		=====
1				
2.				
J			l	·
4 •				
5.				
6.		1		
7.				
0.				
1 2.				
10.				
1 1				
12.				
13.		l ———		
14				
15				
16				
16.				
17.				
18.				
1 1 2 .				
20.				
21.				
22.				
23.				
44.				
45.				
26.				
27.				
20.				
47.				
30.				
		1		1

FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SS-SB03-4

Re: COMPUCHEM	Contract: 8260B	
de: LIBRTY Case No.:	SAS No.: SDG No.: R2812	
: (soil/water) SOIL	Lab Sample ID: R2812-4	
wt/vol: 5.0 (g/mL) G	Lab File ID: R2812-4A52	
(low/med) LOW	Date Received: 12/06/02	
ture: not dec. 17	Date Analyzed: 12/10/02	
umn: EQUITY624 ID: 0.53 (mm)	Dilution Factor: 1.0	
xtract Volume:(uL)	Soil Aliquot Volume:(uI
r TICs found: 0	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	

	3.			
NUMBER	COMPOUND NAME	RT	EST. CONC.	Q =====
				
				<u> </u>

CLIENT SAMPLE NO.

SS-SB03-1

VOLATILE	ORGANICS	ANALYSIS	DATA	SHEET
TENTA	ATIVELY II	DENTIFIED	COMPO	DUNDS

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-3

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: R2812-3A52

Level: (low/med) LOW

Date Received: 12/06/02

% Moisture: not dec. 5

Date Analyzed: 12/10/02

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Number TICs found: 0

Soil Aliquot Volume: ____(uL

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
			=======================================	
1.				
2.				
ã			Í 	
4.				
5.				
6				
<i>'</i> •				
٠.				
9.				
10.				
11.				
12.				
13				
14.				
*· · · ·				
16.				
1/.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
24.				
25.				
26.				
27.				
28.				
29				
30.				
				

CLIENT SAMPLE NO.

FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SS-SB04-1

Lab Name:	COMPUCHEM	Contract:	8260B	

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: R2812

Matrix: (soil/water) SOIL Lab Sample ID: R2812-12 Sample wt/vol: 5.0 (g/mL) G Lab File ID: R2812-12A59

Level: (low/med) LOW Date Received: 12/06/02

% Moisture: not dec. 9
Date Analyzed: 12/12/02

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (u)

CONCENTRATION UNITS:
Number TICs found: 0 (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
3				
4. 5.				
6. 7. 8.				
9.				
12.				
14.				
16.				
17.				
20.				
22.				
24.				
25. 26.				
27. 28. 29.				
30.				

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM

Contract: 8260B

SS-SB04-0

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-11

Sample wt/vol:

 $5.0 \, (g/mL) \, G$

Lab File ID: R2812-11A59

Level: (low/med) LOW

Date Received: 12/06/02

% Moisture: not dec. 9

Date Analyzed: 12/12/02

GC Column: ZB624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: ____(ul

Number TICs found: 5

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

1. 526-73-8		1	EST. CONC.	Q
	BENZENE, 1,2,3-TRIMETHYL- LABORATORY ARTIFACT	14.15	6.11	
4. 90 13 0	LABORATORY ARTIFACT NAPHTHALENE, 22 METHYL-	16.22 17.29	37.33 9.22	J-
5. 90-12-0	NAPHTHALENE, 1-METHYL-	17.51	7.31	NJ J
6. 7.				
8. 9.				
1.				
3.				
4. 5.				
7.				
9.				
0.				
2.				
3. 4.				
5. 6.				
8.				

FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SS-SB04-4

Contract: 8260B

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Sample wt/vol:

Lab File ID:

R2812-13A59

5.0 (g/mL) G

Date Received: 12/06/02

Level: (low/med) LOW

Date Analyzed: 12/12/02

% Moisture: not dec. 19

GC Column: ZB624 ID: 0.32 (mm)

Dilution Factor: 1.0

Lab Sample ID: R2812-13

Soil Extract Volume: (uL)

Soil Aliquot Volume: ____(uL

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
		== ======		
2				
3.				
4.				
5				
6.				
7				
8.				
7.				
10.				
14.				
12.				
13.				
15.				
16				
17.				
17.				
19.				
20.				
21.				
22.				
23.				
24.				-
25				
26.				
27.				
28.				
29.				
30.				
			<u></u>	

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

				SS-SB05-0
Lab Name:	COMPUCHEM	Contract:	8260B	

SAS No.: Lab Code: LIBRTY Case No.: SDG No.: R2812

Matrix: (soil/water) SOIL Lab Sample ID: R2812-14

Sample wt/vol: 5.0 (g/mL) GLab File ID: R2812-14A59

Level: (low/med) Date Received: 12/06/02 LOW

% Moisture: not dec. Date Analyzed: 12/12/02

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

Number TICs found: 3

Soil Extract Volume: (uL) Soil Aliquot Volume: ____(uL

> CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

3/20/03

				~
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 275-51-4 2. 90-12-0 9/-57- 3. 90-12-0 4	AZULENE NAPHTHALENE, 2/-METHYL- NAPHTHALENE, 1-METHYL-	16.23 17.28 17.51	12.47 8.85	NJ J
6. 7. 8. 9.				
13. 14. 15.				
18. 19. 20.				
23. 24.	1			
26. 27. 28. 29.				

FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SS-SB05-1

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-15

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: R2812-15A59

Level: (low/med) LOW

Date Received: 12/06/02

% Moisture: not dec. 6

Date Analyzed: 12/12/02

GC Column: ZB624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: ____(ul

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	
		=======	=======================================	===
1				
۷.		·		
3.				
				l
6		_		l
7.		_		i ——
8.				ļ ——-
· .		_		l
10.				ł ———
11.				
12.		_		
13.				
14.				
15.				
16.				
17.				
	· · · · · · · · · · · · · · · · · · ·	_		
L J .				
- -				
4 ~ •				
		_		
24		_		
26. ————				
27. ——————————		_	 	
28.		_		
.9.				
30.		_		
··		[!	

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SS-SB05-4	

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-16

Sample wt/vol:

5.0 (g/mL) G

Lab File ID: R2812-16A59

Level:

(low/med) LOW Date Received: 12/06/02

% Moisture: not dec. 19

Date Analyzed: 12/12/02

GC Column: ZB624

ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (v

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
			=======================================	====
1.				
2				
3		— ————		
<i>-</i>				
6				
7.		_]		
8				
9.				
.0.				
. J. •				
.Z.				
.3				
.4.				
.5.				
.6.			<u>- </u>	
.7.				
.8,				
9		_		
0	***			
1.				
2.		 		
3 -		— I ——— [
3.				
4				
. / •		_		
9.		_		
0.		1		

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SSMW10-1

Tab	Nama.	COMPUCI	TEM
Lan	name:	COMPUCI	11514

Contract: 8260B

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab File ID:

R2812-1RA59

Sample wt/vol:

4.20 (g/mL) G

Level: (low/med)

LOW

Date Received: 12/04/02

% Moisture: not dec. 9

ID: 0.32 (mm)

Dilution Factor: 1.0

GC Column: ZB624

Number TICs found: 0

Soil Extract Volume: ____(uL)

Date Analyzed: 12/11/02

Lab Sample ID: R2812-1

Soil Aliquot Volume: ____(u

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
		======	#=========	====
1				
2				
3				
4.				
5.				
5.				
7				
7				
10				
T T =				
14.				
T				
11.				
17.				
10.				
17.				
18.				
19				
20				
20		·		
21.				
22				
23.				
24				
25.		· 		
20.				
21.				
20.				
47.				
30				

CLIENT SAMPLE NO.

SS-MW11-0

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-17

Sample wt/vol:

30.0 (g/mL) G

Lab File ID:

CONCENTRATION UNITS:

R2812-17B64

Level:

LOW

(low/med)

decanted: (Y/N) N

Date Received: 12/06/02

% Moisture: 9

Date Extracted:12/10/02

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 12/18/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: ____

CAS NO.	COMPOUND	(ug/L or	ug/Kg)	UG/KG	Q	
	Benzaldehyde			360	U	_
108-95-2	Phenol			360	Ū	- 1
111-44-4	Bis(2-chloroe	thyl)ether		360	Ū	
95-57-8	2 - Chloropheno	1		360	Ū	
95-48-7	- <i></i> 2-Methvlpheno			360	Ū	
108-60-1	2,2'-oxybis(1	-Chloropropa	ne)	360	Ū	
98-86-2	Acetophenone	_		360	U	
106-44-5	4-Methylpheno	1		360	U	1
621-64-7	N-Nitroso-di-1	N-propylamin	e	360	Ü	1
67-72-1	Hexachloroeth	ane		360	Ū	ĺ
98-95-3	Nitrobenzene	·-·		360	U	
78-59-1	Isophorone			360	Ū	ļ
88-75-5	2-Nitrophe nol			360	U	1
105-67-9	2,4-Dimethylp	nenol		360	ĺΰ	
111-91-1	2,4-Dimethylp Bis(2-chloroe	thoxy) methane	e	360	lυ	İ
120-83-2	2,4-Dichlorop	henol		360	U	
91-20-3	Naphthalene			360	שׁו	ļ
106-47-8	4-ChloroaniTii	ne		360	U	ļ
87-68 - 3	Hexachlorobuta	adiene		360	U	
105-60-2	Caprolactam_			360	lυ	ŀ
59-50-7	4-Chloro-3-me	hylphenol		360	ט	
91-57-6	2-Methylnapht	nalene		360	U	1
77-47-4	Hexachlorocyc	lopentadiene		360	Ū	Ì
88-06-2	2,4,6-Trichlo	rophenol		360	บ	
95-95-4	2,4,5-Trichlo	rophenol		360	שו	
92-52-4	1,1'-Biphenyl			360	Ū	ł
91-58-7	2-Chloronaphtl	nalene		360	U	
88-74-4	2-Nitroaniline	=		730	ប	
131-11-3	Dimethylphtha	late		360	Ū	
606-20-2	2,6-Dinitroto	luene		360	Ū	1
208-96-8	Acenaphthylene			360	Ū	
99-09-2	3-Nitroaniline	2		730	Ū	
83-32-9	Acenaphthene_			360	Ū	
l					1	1
	FORM	I SV			'	8270

CLIENT SAMPLE NO.

SS-MW11-0

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-17

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2812-17B64

Level: (low/med) LOW

CONCENTRATION UNITS:

Date Received: 12/06/02

% Moisture: 9 decanted: (Y/N) N

Date Extracted:12/10/02

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 12/18/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	(ug/L or ug/Kg	g) UG/KG	Q	
100-02-7 121-14-2 132-64-9 84-66-2 7005-72-3 86-73-7 100-01-6 534-52-1 86-30-6 101-55-3 118-74-1 1912-24-9 87-86-5 85-01-8 120-12-7 86-74-8 206-44-0 129-00-0 85-68-7 91-94-1 117-81-7 56-55-3 218-01-9 117-84-0 205-99-2 207-08-9 50-32-8 193-39-5 53-70-3	Butylbenzylphth3,3'-Dichlorobebis(2-ethylhexyBenzo(a) anthracChryseneDi-n-octylphthaBenzo(b) fluoranBenzo(k) fluoranBenzo(a) pyreneIndeno(1,2,3-cdDibenzo(a,h) antBenzo(g,h,i) per separated from Dip	methylphenol nylamine (1) phenylether nol methylphenol nylamine (1) phenylether nol malate nalate nalate nthene malate nthene nthene chene chene chenylamine	1800 730 360 360 360 360 360 360 360 360 360 3	מממממממממממממממממממממממממממממממממממממממ	3/26/07
	FORM I	SV		82	270C

15

CLIENT SAMPLE NO.

SS-SB01-0

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY

Case No.: SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-8

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2812-8A64

CONCENTRATION UNITS:

Level: (low/med) LOW

Date Received: 12/06/02

% Moisture: 1

decanted: (Y/N) N

Date Extracted:12/10/02

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 12/16/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND (ug/L o	r ug/Kg)	UG/KG	Q	
100-52-7	Benzaldehyde		330	U	_
108-95-2	Phenol		330	ΙŪ	
111-44-4	Bis(2-chloroethyl)ether		330	Ŭ	
95-57-8	2-Chlorophenol		330	Ū	
95-48-7	2-Methylphenol		330	Ū	
108-60-1	2,2'-oxybis(1-Chloroprop	ane)	330	Ū	
98-86-2	Acetophenone		330	Ū	
106-44-5	4-Methylphenol		330	Ū	İ
621-64-7	N-Nitroso-di-N-propylami	ne	330	U	İ
67-72-1 - -	Hexachloroethane		330	Ū	1
98-95-3	Nitrobenzene		330	U	
78-59-1	Isophorone		330	Ū	1
88-75-5	2-Nitrophenol		330	Ü	
105-67-9	2,4-Dimethylphenol		330	ΰ	ł
111-91-1	Bis(2-chloroethoxy) methan	ne	330	Ū	- [
120-83-2	2,4-Dichlorophenol		330	Ū	
91-20-3	Naphthalene		330	Ū	
106-47-8	4-Chloroaniline		330	Ū	
87-68-3	Hexachlorobutadiene		330	Ū	
105-60-2	Caprolactam		330	Ū	
59-50-7	4-Chloro-3-methylphenol		330	Ū	
91-57-6	2-Methylnaphthalene		34	Ĵ	
77-47-4	Hexachlorocyclopentadiene	e	330	Ū	
88-06-2	2,4,6-Trichlorophenol		330	Ū	
95-95-4	2,4,5-Trichlorophenol		330	Ū	
92-52-4	1,1'-Biphenyl		330	Ū	1
91-58-7	2-Chloronaphthalene		330	Ū	
88-74-4	2-Nitroaniline		670	Ū	
131-11-3	Dimethylphthalate		330	Ŭ	-1
606-20-2	2,6-Dinitrotoluene		330	Ŭ	J
208-96-8	Acenaphthylene		81	Ĵ	
99-09-2	3-Nitroaniline		670	lΰ	1
83-32-9	Acenaphthene		49	J	-
	FORM I SV	· · · · · · · · · · · · · · · · · · ·		'	<u>8</u> 2700

CLIENT SAMPLE NO.

SS-SB01-0

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-8

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2812-8A64

Level: (low/med) LOW

Date Received: 12/06/02

% Moisture: 1 decanted: (Y/N) N

Date Extracted:12/10/02

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 12/16/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: ____

CAS NO.	COMPOUND	CONCENTRA (ug/L or			Q
51-28-5	2,4-Dinitroph	nenol		1700	U
100-02-7	4-Nitrophenol		 !	670	υ
121-14-2	2,4-Dinitroto	luene	 i	330	Ιŭ
132-64-9	Dibenzofuran		<u> </u>	30	Ĵ
84-66-2	Diethvlphthal	ate		330	Ŭ
7005-72-3	Diethylphthal	l-phenylether	-	330	Ü
86-73-7	Fluorene	- phonyrounci		94	J
100-01-6	4-Nitroanilir	16		670	Ü
534-52-1	4,6-Dinitro-2	-methylphenol		670 670	Ü
86-30-6	N-Nitrosodiph	envlamine (1)		330	Ü
101-55-3	4-Bromophenyl	-nhenvlether	'—I	330	Ü
118-74-1	Hexachlorober	. phonyrecher_		330	1 -
1912-24-9	Atrazine	izene			U
87-86-5	Pentachloroph	enol		330	U
85-01-8	Phenanthrene			330	U
120-12-7	Anthracene		I	390	l
86-74-8	Carbazole		[76	J
84-74-2	Di-n-butylpht	halata		330	U
206-44-0	Fluoranthene	narace		330	U
129-00-0	Duranchene_			370	
25-60-7	Butylbenzylph	to be a local control of		740	
03-00-/	Bucyroenzylpr	tnarate		330	U
71-74-1	3,3'-Dichloro	penziaine		330	U
TT / = QT = /	bis(2-ethylhe	(xy_1) Phthalate	<u>-</u>	84	J
20-22-3	Benzo(a)anthr	acene		210	J
218-01-9	Chrysene			210	J
11/-84-0	Di-n-octylpht	nalate		280	J
205-99-2	Benzo(b)fluor	anthene		240	J
207-08-9	Benzo(k)fluor	anthene		210	J
50-32-8	Benzo(a)pyren	.e		170	J
193-39-5	Indeno(1,2,3-	cd) pyrene		150	Ĵ
53-70-3	Dibenzo(a,h)a	nthracene		46	J
191-24-2	Benzo(g,h,i)p	erylene		140	J
- Cannot be	separated from D	iphenylamine	!		l

SS-SB01-1

Lab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-9

Sample wt/vol:

30.0 (g/mL) G

Lab File ID: R2812-9A64

Level:

(low/med) LOW

Date Received: 12/06/02

% Moisture: 5

decanted: (Y/N) N

Date Extracted:12/10/02

Concentrated Extract Volume:

1000 (uL)

Date Analyzed: 12/16/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

CAS NO.	COMPOUND	CONCENTR (ug/L or			Q	
100-52-7 108-95-2 111-44-4 95-57-8 95-48-7 108-60-1 98-86-2 106-44-5 621-64-7 98-95-3 78-59-1 88-75-5 111-91-1 120-83-2 105-60-2 110-647-8 87-68-3 105-60-2 91-57-6 77-47-4 88-06-2 91-58-7	Benzaldehyde	hyl)ether	ne)	350 350 350 350 350 350 350 350 350 350	רמניממממימממניממממממממממממממ ס	
	FORM I	sv				 82700

CLIENT SAMPLE NO.

SS-SB01-1

Lab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: R2812

Matrix: (soil/water) SOIL Lab Sample ID: R2812-9

Sample wt/vol: 30.0 (g/mL) G Lab File ID: R2812-9A64

Level: (low/med) LOW Date Received: 12/06/02

% Moisture: 5 decanted: (Y/N) N Date Extracted: 12/10/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/16/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG (

51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	690	U
121-14-2	2,4-Dinitrotoluene	350	U
	Dibenzofuran	54	J
84-66-2	Diethylphthalate	350	U
7005-72-3	4-Chlorophenyl-phenylether	350	U
86-73-7	Fluorene	170	J
100-01-6	4-Nitroaniline	690	U
534-52-1	4,6-Dinitro-2-methylphenol	690	ĺυ
86-30-6	N-Nitrosodiphenylamine (1)	350	U
101-55-3	4-Bromophenyl-phenylether	350	U
118-74-1	Hexachlorobenzene	350	U
1912-24-9	Atrazine	350	U
87-86-5	Pentachlorophenol	350	บ
85-01-8	Phenanthrene	810	
120-12-7	Anthracene	150	J
86-74-8	Carbazole	350	Ū
84-74-2	Di-n-butylphthalate	350	U
206-44-0	Fluoranthene	620	_
129-00-0	Pyrene	1200	——
85-68-7	Butylbenzylphthalate	350	U
91-94-1	3,3'-Dichlorobenzidine	350	U
117-81-7	bis(2-ethylhexyl)Phthalate	290	J
56-55-3	Benzo(a) anthracene	340	J
218-01-9	Chrysene	340	J
117-84-0	Di-n-octylphthalate	32	J
205-99-2	Benzo(b) fluoranthene	300	J
207-08-9	Benzo(k)fluoranthene	360	-
50-32-8	Benzo(a) pyrene	270	J
193-39-5	Indeno (1, 2, 3-cd) pyrene	200	IJ
53-70-3	Dibenzo(a,h)anthracene	67	J
191-24-2	Benzo(g,h,i)perylene	190	J

FORM I SV

SS-SB01-4

Lab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: R2812

Matrix: (soil/water) SOIL Lab Sample ID: R2812-10

Sample wt/vol: 30.0 (g/mL) G Lab File ID: R2812-10A64

Level: (low/med) LOW Date Received: 12/06/02

% Moisture: 20 decanted: (Y/N) N Date Extracted:12/10/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/16/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

pH:

GPC Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg		Q
100-52-7	Benzaldehyde	410	U
108-95-2	Phenol	410	ا تا
111-44-4	Bis(2-chloroethyl)ether_	410	lŭ l
95-57-8	2-Chlorophenol	410	lŭ l
95-48-7	2-Methylphenol	410	שׁן שׁ
108-60-1	2,2'-oxvbis(1-Chloropropage)	410	ΙΰΙ
98-86-2	Acetophenone	410	וֹטֹ ו
106-44-5	4-Methylphenol	410	Ü
621-64-7	N-Nitroso-di-N-propylamine	410	lŭ l
67 - 72-1	Hexachloroethane	410	Ŭ
98-95-3	Nitrobenzene	410	Ŭ
78-59-1	Isophorone	410	Ŭ
88-75-5	2-Nitrophenol	410	บี
105-67-9	2,4-DimethylphenolBis(2-chloroethoxy)methane	410	Ŭ
111-91-1	Bis(2-chloroethoxy)methane	410	lŭ l
120-83-2	2,4-Dichlorophenol —	410	lŭ l
91-20-3	Naphthalene	410	lŭ l
106-47-8	4-Chloroaniline	410	lŭ
87-68-3	Hexachlorobutadiene	410	lŭ
105-60-2	Caprolactam	410	lŭ l
59-50-7	4-Chloro-3-methylphenol	410	Ŭ
91-57-6	2-Methylnaphthalene	410	ן ט
77-47-4	Hexachlorocyclopentadiene	410	lΰ
88-06-2	2,4,6-Trichlorophenol	410	Ŭ
95-95-4	2,4,5-Trichlorophenol	410	ΰ
92-52-4	1,1'-Biphenvl	410	Ŭ
91-58-7	2-Chloronaphthalene	410	Ŭ
88-74-4	2-Nitroaniline	830	υ
131 - 11-3	Dimethylphthalate_	410	Ü
606-20-2- <i></i> -	2,6-Dinitrotoluene	410	υ
208 - 96-8	Acenaphthylene	36	J
99-09-2	3-Nitroaniline	830	Ü
83-32-9	Acenaphthene	410	υ
		110	
	FORM I SV		82

SS-SB01-4

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-10

Sample wt/vol:

30.0 (g/mL) G

Lab File ID: R2812-10A64

Level: (low/med)

LOW

Date Received: 12/06/02

% Moisture: 20 decanted: (Y/N) N

Date Extracted:12/10/02

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 12/16/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

CONCENTRATION UNITS:

GPC Cleanup: (Y/N) N

pH:

CAS NO.		ONCENTRATION ug/L or ug/N		Q
51-28-5	2,4-Dinitrophenol		2100	U
100-02-7	4-Nitrophenol -		830	Ιŭ
121-14-2	2,4-Dinitrotoluene		410	ΰ
132-64-9	Dibenzofuran		410	Ü
84-66-2	Diethylphthalate		410	บี
7005-72-3	4-Chlorophenyl-phe	nylether	410	บี
86-73-7	Fluorene		28	J
100-01-6	4-Nitroaniline		830	Ū
534-52-1	4,6-Dinitro-2-meth	vlphenol	830	Ü
86-30-6	N-Nitrosodiphenyla	mine (1)	410	Ü
101-55-3	4-Bromophenyl-phen	vlether —	410	Ü
118-74-1	Hexachlorobenzene		410	Ü
1912-24-9	Atrazine		410	Ü
87-86-5	Pentachlorophenol		410	Ü
85-01-8	Phenanthrene		150	J
120-12-7	Anthracene		33	J
	Carbazole		410	1
84-74-2	Di-n-butylphthalat	<u> </u>	410	U
206-44-0	Fluoranthene	<u> </u>	150	J
129-00-0	Pyrene		330	
85-68-7	Butylbenzylphthala	to		J
91-94-1	3,3'-Dichlorobenzi	dina	410	Ü
117-81-7	bis(2-ethylhexyl)P	hthalato	410	Ŭ
56-55-3	Benzo(a) anthracene	""""—	390	J
218-01 - 9	Chrysene		93	J
117-84-0	Di-n-octylphthalat		92	J
205-99-2	Benzo (b) fluoranthe	n <u>a</u>	410	Ū
207-08-9	Benzo(k) fluoranthe	70	110	J
50-32-8	Benzo (a) pyrene		91	J
193-39-5	Indeno(1,2,3-cd)py	rene	72	J
53-70-3	Dibenzo(a,h) anthra	Cene	65	J
191-24-2	Benzo(g,h,i)peryle	Cerre	410	Ω
			64	J
- Cannot be	separated from Diphen	ylamine '-		I ————
	FORM I SV			

SS-SB02-0

Lab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL Lab Sample ID: R2812-5

Sample wt/vol: 30.0 (q/mL) G Lab File ID: R2812-5A64

Level: (low/med) LOW Date Received: 12/06/02

decanted: (Y/N) N % Moisture: 3 Date Extracted:12/10/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/16/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: pH: (Y/N) N

> CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG 0

100-52-7-----Benzaldehyde 340 U 108-95-2----Phenol 340 U 111-44-4-----Bis(2-chloroethyl)ether 340 U 95-57-8-----2-Chlorophenol 95-48-7----2-Methylphenol 108-60-1-----2,2'-oxybis(1-Chloropropane) U 340 340 U 340 U 98-86-2-----Acetophenone 340 U 106-44-5------Nethylphenol 621-64-7----N-Nitroso-di-N-propylamine 340 U 340 U 67-72-1-----Hexachloroethane 340 U 98-95-3-----Nitrobenzene 340 U 78-59-1-----Isophorone 340 U 88-75-5----2-Nitrophenol 340 U 105-67-9----2,4-Dimethylphenol 340 U 111-91-1-----Bis(2-chloroethoxy) methane 340 U 120-83-2-----2,4-DichlorophenoĪ 340 U 91-20-3-----Naphthalene 340 U 106-47-8-----4-Chloroaniline 340 U 87-68-3------Hexachlorobutadiene 340 U 105-60-2------Caprolactam 340 U 59-50-7----4-Chloro-3-methylphenol 340 U 91-57-6----2-Methylnaphthalene 340 U 77-47-4-----Hexachlorocyclopentadiene 340 U 88-06-2----2,4,6-Trichlorophenol 340 U 95-95-4-----2,4,5-Trichlorophenol 92-52-4-----1,1'-Biphenyl 340 U 340 U 91-58-7----2-Chloronaphthalene 340 U 88-74-4----2-Nitroaniline 680 U 131-11-3-----Dimethylphthalate 340 U 606-20-2----2,6-Dinitrotoluene 208-96-8-----Acenaphthylene 340 U 250 J 99-09-2------Acenaphthene 680 U 340 U <u>8</u>270C

FORM I SV

CLIENT SAMPLE NO.

SS-SB02-0

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-5

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2812-5A64

Level: (low/med) LOW

Date Received: 12/06/02

% Moisture: 3 decanted: (Y/N) N Date Extracted: 12/10/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/16/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: ____

CAS NO.	COMPOUND	CONCENTRA (ug/L or			Q
51-28-5	2,4-Dinitroph	enol		1700	U
100-02-7	4-Nitrophenol			680	Ιŭ
121-14-2	2,4-Dinitroto	luene		340	ΙŬ
132-64-9	Dibenzofuran			340	Ŭ
	Diethylphthal	ate		340	Ū
7005-72-3	4-Chloropheny	1-phenylether	-	340	Ŭ
86-73-7	Fluorene	- F7	_	25	Ĵ
100-01-6	4-Nitroanilin	.e		680	lΰ
534-52-1	4,6-Dinitro-2	-methylpheno	1	680	Ü
86-30-6	N-Nitrosodiph	envlamine (1	<u> </u>	340	Ü
101-55-3	4-Bromophenvl	-phenylether		340	ΙŬ
118-74-1	Hexachloroben	zene		340	Ŭ
1912-24-9	Atrazine	******		340	Ŭ
87-86-5	Pentachloroph	enol		340	Ü
85-01-8	Phenanthrene			410	
120-12-7	Anthracene			150	J
86-74-8	Carbazole			340	Ū
84-74-2	Di-n-butyIpht	halate		340	lu
206-44-0	Fluoranthene	· 		530	
129-00-0	Pvrene -			920] ——
85-68-7 	Butylbenzylph	thalate		340	Ū
91-94-1	3,3'-Dichloro	benzidi ne		340	Ŭ
117-81-7	bis(2-ethylhe	xvl)Phthalate	e	91	J
56-55-3	Benzo(a) anthr	acene		320	Ĵ
218-01-9	Chrvsene			410	
117-84-0	Di-n-oct-vlpht	halate		210	J
205-99-2	Benzo(b)fluor	anthene		750	"
207-08-9 -	Benzo(k)fluor	anthene		500	
50-32-8	Benzo(a)pyren	e		430	
193-39-5	Indeno(1,2,3-	cd) pyrene		520	
53-70-3	Dibenzo(a,h)a	nthracene		160	J
191-24-2	Benzo(g,h,i)p	erylene		550	ĺ
) - Cannot be	separated from D		I		l
	FORM	I SV			8

CLIENT SAMPLE NO.

SS-SB02-1

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-6

Sample wt/vol:

30.0 (g/mL) G

Lab File ID:

R2812-6A64

Level: (low/med)

LOW

Date Received: 12/06/02

% Moisture: 8

decanted: (Y/N) N

Date Extracted:12/10/02

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 12/16/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

CAS NO.	COMPOUND	CONCENTRATI (ug/L or ug	ON UNITS: /Kg) UG/KG	Q
100-52-7	Benzaldehyde		360	U
108-95-2	Phenol		360	Ü
111-44-4	Bis(2-chloroet	hvl)ether	360	ا تا
95-57-8	2-Chlorophenol		360	l ü
95-48-7	2-Methylphenol		360	ا تا
108-60-1	2,2'-oxybis(1-	Chloropropane)	360	ا قا
98-86-2	Acetophenone	omior opropune)	360	ן ט
106-44-5	4-Metĥvlphen ol		360	ן ט
621-64-7	N-Nitroso-di-N	-propylamine	360	ŭ
67-72-1	Hexachloroetha	ne	360	Ü
98-95-3	Nitrobenzene		360	lu l
78-59-1	Isophorone		360	ן ע
88-75-5	2-Nitrophenol		360	U
105-67-9	2,4-Dimethylph	enol	360	-
111-91-1	Bis(2-chloroet	hoxy met hane	360	U
120-83-2	2,4-Dichloroph	enol	360	U
91-20-3	Naphthalene		360	U I
106-47-8	4-Chloroanilin	6	360	lu l
87-68-3- -	Hexachlorobuta	diene	360	1 -
105-60-2	Caprolactam			U
59-50-7	4-Chloro-3-met	hylphenol	360 360	U U
91-57-6	2-Methylnaphth	alene		1 -
77-47-4	Hexachlorocycl	opentadiene	360 360	U
88-06-2	2,4,6-Trichlor	ophenol	1	U
95-95-4	2,4,5-Trichlor	ophenol	360	U
92-52-4	1,1'-Biphenyl	opnenoi	360	Ū
91-58-7	2-Chloronaphth	alene	360	n
88-74-4	2-Nitroaniline	<u> </u>	360	ū
131-11-3	Dimethylphthal	ate	720	U
606-20-2	2,6-Dinitrotol	ucc	360	ñ
208-96-8	Acenaphthylene	~	360	U
99-09-2	3-Nitroaniline		360	Ü
83-32-9	Acenaphthene		720	U
			360	Ū
	FORM T	SV	l	827

CLIENT SAMPLE NO.

SS-SB02-1

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-6

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2812-6A64

Level: (low/med) LOW

Date Received: 12/06/02

% Moisture: 8 decanted: (Y/N) N Date Extracted:12/10/02

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 12/16/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

CONCENTRATION UNITS:

GPC Cleanup: (Y/N) N pH: ___

51-28-52,4-Dinitrophenol 1800 100-02-74-Nitrophenol 720	U U U
	Ü
100-02-74-Nitrophenol 720	U
121-14-22,4-Dinitrotoluene 360	1
132-64-9Dibenzofuran 360	U
84-66-2Diethylphthalate 360	Ŭ
7005-72-34-Chlorophenyl-phenylether 360	Ü
86-73-7Fluorene 360	ΰ
100-01-64-Nitroaniline 720	Ü
534-52-14,6-Dinitro-2-methylphenol 720	ΰ
86-30-6N-Nitrosodiphenylamine (1)	Ü
101-55-34-Bromophenyl-phenylether 360	Ü
118-74-1Hexachlorobenzene	1 -
1912-24-9Atrazine 360	U
87-86-5Pentachlorophenol	
05 01 0	U
	J
	U
	U
	ū
	J
	J
85-68-7Butylbenzylphthalate 360	U
91-94-13,3'-Dichlorobenzidine 360	U
117-81-7bis(2-ethylhexyl)Phthalate 130	J
56-55-3Benzo(a) anthracene 360	U
218-01-9Chrysene 360	U
117-84-0Di-n-octylphthalate 360	U
205-99-2Benzo(b) fluoranthene	U
207-08-9Benzo(k) fluoranthene 360	U
50-32-8Benzo (a) pyrene 360	U
193-39-5Indeno(1,2,3-cd)pyrene 25	J
53-70-3Dibenzo(a,h)anthracene 360	U
191-24-2Benzo(g,h,i)perylene26	J
- Cannot be separated from Diphenylamine	l
FORM I SV	

SS-SB02-4

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-7

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2812-7A64

Level: (low/med) LOW

Date Received: 12/06/02

% Moisture: 20

decanted: (Y/N) N

Date Extracted:12/10/02

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 12/16/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

CONCENTEDATION INTEG.

GPC Cleanup: (Y/N) N

pH:

CAS NO.	CONCENTRATIO COMPOUND (ug/L or ug/		Q
100-52-7	Benzaldehyde	410	U
108-95-2	Phenol	410	ן ט
111-44-4	Bis(2-chloroethyl)ether	410	ט
95-57-8	2-Chlorophenol	410	ן ט
95-48-7	2-Methylphenol	410	ן ט
108-60-1	2,2'-oxybis(1-Chloropropane)	410	ן ט
98-86-2	Acetophenone	410	ע
106-44-5	4-Methylphenol	410	ן ט
621-64-7	N-Nitroso-di-N-propylamine	410	ן ט
67-72-1	Hexachloroethane	410	ן ט
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	ן ט
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
111-91-1	Bis(2-chloroethoxy)methane	410	U
120-83-2	2,4-Dichlorophenol	410	ע
91-20-3	Naphthalene	410	ן ט
106-47-8	4-Chloroaniline	410	Ū
87-68-3	Hexachlorobutadiene	410	U
105-60-2	Caprolactam	410	Ū
59-50-7	4-Chloro-3-methylphenol	410	ען ו
91-57-6	2-Methylnaphthalene	410	lū l
77-47-4	Hexachlorocyclopentadiene	410	Ū
88-06-2	2,4,6-Trichlorophenol	410	lu l
95-95-4	2,4,5-Trichlorophenol	410	lu l
92 - 52-4	1,1'-Biphenvl	410	Ū
91-58-7	2-Chloronaphthalene	410	lu l
88-74-4	2-Nitroaniline	830	Ū
131-11-3	Dimethylphthalate	410	ΙŪ Ι
606-20-2	2,6-Dinitrotoluene	51	J
208-96-8	Acenaphthylene	33	Ĵ
99-09-2	3-Nitroaniline	830	lŭ l
83-32-9	Acenaphthene	410	lŭ l
		1	-
	FORM I SV	I	8270

CLIENT SAMPLE NO.

SS-SB02-4

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-7

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2812-7A64

Level: (low/med) LOW

Date Received: 12/06/02

% Moisture: 20 decanted: (Y/N) N

Date Extracted:12/10/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/16/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: ____

	CAS NO.	COMPOUND	CONCENTRA (ug/L or			Ç	Σ
	51-28-5	2,4-Dinitropheno	1		2100	U	
1	100-02-7-	4-Nitrophenol	<u> </u>	 [830	Ü	1
- 1	121-14-2-	2,4-Dinitrotolue	ne		130	IJ	ŀ
	132-64-9-	Dibenzofuran			410	บั	
		Diethylphthalate			410	lΰ	
- 1	7005-72-3	4-Chlorophenyl-p	henvlether		410	Ü	
	86-73-7	Fluorene	inching recines	<u></u>	410	υ	ł
-	100-01-6-	4-Nitroaniline			830	Ü	
	534-52-1-	4,6-Dinitro-2-me	thylpheno	 -	830	Ü	
- 1	86-30-6	N-Nitrosodipheny	lamine (1)	<u></u>		_	
	101-55-3-	4-Bromophenyl-ph	enviet bor	' 	150	J	
	118-74-1-	Hexachlorobenzen	enlarecher		410	Ü	
	1912-24-9	Atrazine	·e		410	ŭ	
1	87-86-5	Pentachloropheno	1	·	410	U	Ì
- 1	85-01-8	Phenanthrene	±		410	Ω̈́	ı
	120-12-7-	Anthracene			70	J	
	86-74-8	Carbazole			410	Ü	
	84-74-2	Di-n-butylphthal	3 t o		410	U	
	206-44-0-	Fluoranthene	ace		410	ū	
'	129-00-0-	Pyrene			95	J	
	85-68-7	Butylbenzylphtha	1540		130	J	
	91-94-1	3,3'-Dichloroben	late		410	U	- 1
	117-01 7	big/2 otherhan-i	zidine		410	ען	
	24-22 3	bis(2-ethylhexyl) Phthalate	=	180	J	
	218-01-0-	Benzo(a)anthrace Chrysene	ne		45	J	
- 1 - 3	210-01-9	Chrysene			50	J	
	117-04-U	Di-n-octylphthal	ate		410	U	
	203-33-2 207 00 0	Benzo (b) fluorant	nene		90	J	i
1:	207-08-9	Benzo(k) fluorant	hene		62	J	
	50-32-8	Benzo (a) pyrene			49	J	
;	193-39-5 - -	Indeno $(1,2,3-cd)$	pyrene	I	55	J	ļ
	53 - /U-3	Dibenzo(a,h)anth	racene		410	U	- 1
'	191-24-2	Benzo(g,h,i)pery	lene		58	J	
(i)	- Cannot	be separated from Diph	enylamine			I	l
		FORM I S	V				82

CLIENT SAMPLE NO.

SS-SB03-0

Lab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.:

: SDG No.: R2812

Matrix: (soil/water) SOIL Lab Sample ID: R2812-2

Sample wt/vol: 30.0 (g/mL) G Lab File ID: R2812-2A64

Level: (low/med) LOW Date Received: 12/06/02

% Moisture: 3 decanted: (Y/N) N Date Extracted:12/10/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/16/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	(ug/L or	ug/Kg)	UG/KG	Q
100-52-7	Benzaldehyde			340	U
108-95-2	Phenol —	***************************************		340	ΙŬ
111-44-4	Bis(2- chloroet	thyl)ether		340	ט
95-57-8	2-Chlorophenol)		340	Ū
95-48-7	2-Methylphenol	l		340	Ū
108-60-1	2,2'-oxybis(1-	-Chloropropar	ne)	340	U
98-86-2	Acetophenone		ſ	340	ן ט
106-44-5	4-Methylpheno N-Nitroso-di-N			340	Ū
621-64-7	N-Nitroso-di-N	N-propylamine	2	340	U
67-72-1	Hexachloroetha	ane		340	U
98-95-3	Nitrobenzene			340	Ū
78-59-1	Isophorone $\overline{}$			340	Ū
88-75-5	2-Nitrophe nol			340	ן ט
105-67-9	2,4-Dimethylp ${ m I}$	nenol		340	U
111-91-1	Bis(2-chloroet	hoxy) methane	<u>-</u>	340	ן ט
120-83-2	2,4-Dichloroph	nenol	-	340	ט
91-20-3	Naphthalene			340	J
106-47-8	4-ChloroaniTir	ne		340	ן ט
87-68-3	Hexachlorobuta	adiene		340	ן ט
105-60-2	Caprolactam_			340	ן ט
59-50-7	4-Chloro-3-met	hylphenol		340	ט
91-57-6	2-Methylnaphth	nalene		1000	
77-47-4	Hexachlorocycl	lopentadiene		340	Ū
88-06-2	2,4,6-Trichloi	rophenol		340	ן ט
95-95-4	2,4,5-Trichlor	rophenol		340	ן ט
92-52-4	1,1'-Biphenyl_			250	J
91-58-7	2-ChloronaphtI	nalene		340	U
88-74-4	2-Nitroani $\mathtt{lin}\epsilon$	2		680	ן ט
131-11-3	Dimethylphthal	late		340	ן ט
606-20-2	2,6-Dinitrotol	Luene		340	ט
208-96-8	Acenaphthylene	· · · · · · · · · · · · · · · · · · ·		1700	
99-09-2	3-Nitroaniline			680	Ū
83-32-9	Acenaphthene_			560	
			_		
	FORM	I SV			82

CLIENT SAMPLE NO.

SS-SB03-0

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-2

Sample wt/vol:

30.0 (g/mL) G

Lab File ID: R2812-2A64

Level: (low/med) LOW

Date Received: 12/06/02

% Moisture: 3

decanted: (Y/N) N

Date Extracted:12/10/02

Concentrated Extract Volume:

1000 (uL)

pH:

Date Analyzed: 12/16/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS: (uq/L or uq/Kq) UG/KG

CAO NO.	COMPOUND (ug/L OI	ug/kg) UG/kG	Q
51-28-5	2,4-Dinitrophenol	1700	U
	4-Nitrophenol	— 1,00 680	υ
121-14-2	2,4-Dinitrotoluene	340	υ
132-64-9	Dibenzofuran	390	10
84-66-2	Diethylphthalate	 340	
7005-72-3	4-Chlorophenyl-phenylether	340	ŭ
86-73-7	Fluorene	1400	١٠
100-01-6	4-Nitroaniline	— 1400 680	0
534-52-1	4,6-Dinitro-2-methylphenol	680	ű
86-30-6	N-Nitrosodiphenylamine (1)	340	Ü
101-55-3	4-Bromophenyl-phenylether	-\big \frac{340}{340}	שׁו
118-74-1	Hexachlorobenzene	- 340 340	Ü
	Atrazine	340	Ü
	Pentachlorophenol	$\frac{340}{340}$	· -
85-01-8	Phenanthrene		T Z
120-12-7	Anthracene	9500 9000	TE D
86-74-8	Carbazole		
84-74-2	Di-n-butylphthalate	490	1,
206-44-0	Fluoranthene	340	Ū
129-00-0	Purene	9800 9300	IE ₽
85-68-7	Butylbenzylphthalate	16000	N D
91-94-1	3,3'-Dichlorobenzidine	340	Ω
J1-J 1 -1	big (2 other) bossel Dhahalate	290	J_
11/-01-/-04-	bis(2-ethylhexyl)Phthalate Benzo(a)anthracene		J
20-22-3 210-01-0	Chrysene	5600 5700	 E - 3
210-01-9 117-01 0	Di-n-octylphthalate	6000 6400	- E
11/-04-U	Pongo (h) fluorenther	24	J
203-33-2 207 00 0	Benzo(b) fluoranthene	6500 7300	- E- 1
207-08-9	Benzo(k)fluoranthene	4100	
コロー3 <i>2</i> - 8	Benzo(a)pyrene	55vv 5600	 E I
	Indeno(1,2,3-cd)pyrene	3600	l
53-/U-3	Dibenzo(a, h) anthracene	1500	
191-24-2	Benzo(g,h,i)perylene	3700	
- Cannot be	separated from Diphenylamine		_
	FORM I SV		

SS-SB03-0DL Lab Name: COMPUCHEM Method: 8270C Lab Code: LIBRTY Case No.: SAS No.: SDG No.: R2812 Matrix: (soil/water) SOIL Lab Sample ID: R2812-2 Sample wt/vol; 30.0 (q/mL) GR281/2-2DB64 Lab File ID: Level: (low/med) LOW Date Received: 12/06/02 % Moisture: decanted: (Y/N) N Date Extracted: 12/10/02 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/18/02 1.0(uL) Injection Volume: Dilution Factor: 5.0 GPC Cleanup: (Y/N) N pH: ___ CONCENTRATION UNITS: COMPOUND CAS NO. (ug/L or /ug/Kg) UG/KG 0 100-52-7-----Benzaldahyde 1700 108-95-2----Phenol 1700 U 111-44-4-----Bis(2-chloroethyl)ether 1700 U 95-57-8-----2-Chlorophenol 1700 U 95-48-7----2-Methylphenol 1700 U 108-60-1-----2,2'-oxybis(1\Chløropropane) 1700 U 98-86-2-----Acetophenone 1700 U 106-44-5-----4-Methylphenol 1700 U 621-64-7----N-Nitroso-di-Nypropylamine 1700 U 67-72-1-----Hexachloroethane_ 1700 U 98-95-3-----Nitrobenzene/ 1700 U 78-59-1------Isophorone_ 1700 U 88-75-5-----2-Nitropherol 1700 U 105-67-9----2,4-DimetMylphenoI 1700 U 111-91-1-----Bis(2-ch/oroethoxy) methane 1700 U 120-83-2----2,4-Dicklorophenol 1700 U 91-20-3----Naphthalene 370 DJ 106-47-8-----4-Chloroaniline 1700 U 87-68-3------Hexaghlorobutadiene 1700 U 105-60-2-----Capyolactam 1700 U 59-50-7----4-Chloro-3-methylphenol 1700 U 91-57-6----2-Methylnaphthalene 940 DJ 77-47-4------Héxachlorocyclopentadiene 1700 U 1700 U 1700 U 210 DJ 91-58-7-----/--2-Chloronaphthalene **1**700 U 88-74-4----/--2-Nitroaniline 3**4**00 U 131-11-3----/---Dimethylphthalate 1700 U 606-20-2---/---2,6-Dinitrotoluene 1700 U 208-96-8--/----Acenaphthylene 1600 DJ 99-09-2--/---3-Nitroaniline 3400 U 83-32-9-/-----Acenaphthene 500 Γď FORM I SV 8270C

3/4/7

38

SS-SB03-0DL Lab Name: COMPUCHEM Method: 8270C Lab Code: LIBRTY Case No.: SAS No.: SDG No.: R2812 Matrix: (soil/water) SOIL Lab Sample ID: R2812-2 Sample wt/vol: $30.0\ (q/mL)$ G Lab File ID: R2812-ZDB64 (low/med) Level: LOW Date Received: 12/06/02 % Moisture: decanted \ (Y/N) N Date Extracted: 12/10/02 Concentrated Extract Volume: (1000 (uL) Date Analyzed: 12/18/02 Injection Volume: 1.0 (uL) Dilution Factor: 5.0 GPC Cleanup: pH: (Y/N) N CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or yg/Kg) UG/KG 0 51-28-5----2,4-Dinitrophenol 8600 Ū 100-02-7----4-Nitrophenol 3400 U 121-14-2----2,4-Dinitrotoluene 1700 U 132-64-9-----Dibenzofuran 430 DJ84-66-2-----Diethylphthalate 1700 U 7005-72-3----4-Chlorophenyl-phenylether 1700 U 86-73-7-----Fluorene 1500 DJ100-01-6-----4-Nitroaniline 3400 U 534-52-1----4,6-Dinitro-2-methylphenol 3400 U 86-30-6-----N-Nitrosodiphenylamine (1) 1700 U 101-55-3-----4-Bromopheny/-phenylether 1700 U 118-74-1-----Hexachlorobenzene 1700 Ũ 1912-24-9-----Atrazine 1700 U 87-86-5----Pentachlorophenol 1700 U 85-01-8-----Phenanthrene 9500 D 120-12-7-----Anthracene 2200 D 86-74-8-----Carbazøle 510 DJ 84-74-2----Di-n-butylphthalate 1700 U 206-44-0----Fluoranthene 9800 D 129-00-0----Pyrene 6000 D 85-68-7-----Buzylbenzylphthalate **1**700 U 91-94-1----3/3'-Dichlorobenzidine 1700 U 117-81-7------bis(2-ethylhexyl)Phthalate 200 DJ 56-55-3-----/Benzo(a)anthracene 560****0 D 6009 D 1700 U 205-99-2------Benzo(b)fluoranthene 207-08-9------Benzo(k)fluoranthene 6500 D 5300 Ø 50-32-8----/---Benzo(a)pyrene_ 5500 D) 193-39-5--/---Indeno(1,2,3-cd)pyrene_ 3600 D 53-70-3--/----Dibenzo(a,h)anthracene 1300 DJ 191-24-2-/----Benzo(g,h,i)perylene 3700 D (i) - Cannot be separated from Diphenylamine FORM I SV 82 X0C 3/20/3

SS-SB03-1

Lab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL Lab Sample ID: R2812-3

Sample wt/vol: 30.0 (g/mL) G Lab File ID: R2812-3A64

Level: (low/med) LOW Date Received: 12/06/02

% Moisture: 5 decanted: (Y/N) N Date Extracted:12/10/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/16/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

	3, 3,	J. ,	
100-52-7	Benzaldehyde	350	U
108-95-2	Phenol	350	Ū
111-44-4	Bis(2-chloroethyl)ether	350	Ū
95-57-8	2-Chlorophenol	350	Ü
95-48-7	2-Methylphenol	350	Ü
108-60-1	2-Methylphenol Chloropropane	350	บั
98-86-2	Acetophenone	350	Ü
106-44-5	4-Methylphenol	350	Ŭ
621-64-7	N-Nitroso-di-N-propylamine	350	Ü
67-72-1	Hexachloroethane	350	U
98-95-3	Nitrobenzene	350	Ū
78-59-1	Isophorone	350	Ū
88-75-5	2-Nitrophenol	350	บี
105-67-9	2.4-Dimethylphenol	350	Ü
111-91-1	2,4-DimethylphenolBis(2-chloroethoxy)methane	350	Ü
120-83-2	2,4-Dichlorophenol	350	Ū
91-20-3	Naphthalene	350	Ū
106-47-8	4-Chloroaniline	350	Ü
87-68-3	Hexachlorobutadiene	350	บั
105-60-2	Caprolactam	350	Ü
59-50-7	4-Chloro-3-methylphenol	350	Ŭ
91-57-6	2-Methylnaphthalene	51	Ĵ
77-47-4	Hexachlorocyclopentadiene	350	Ū
88-06-2	2,4,6-Trichlorophenol	350	Ū
95-95-4	2.4.5-Trichlorophenol	350	Ū
92-52-4	1,1'-Biphenyl2-Chloronaphthalene	350	บ
91-58-7	2-Chloronaphthalene	350	บั
88-74-4	2-Nitroaniline	690	Ū
131-11-3	Dimethylphthalate	350	Ū
606-20-2	2,6-Dinitrotoluene	350	Ŭ
208-96-8	Acenaphthylene	130	J
99-09-2	3-Nitroaniline	690	υ
83-32-9	Acenaphthene	350	Ū

FORM I SV

CLIENT SAMPLE NO.

SS-SB03-1

Tab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: R2812

Matrix: (soil/water) SOIL Lab Sample ID: R2812-3

Sample wt/vol: 30.0 (g/mL) GLab File ID: R2812-3A64

Level: (low/med) LOW Date Received: 12/06/02

% Moisture: 5 decanted: (Y/N) N Date Extracted:12/10/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/16/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug	g/Kg) UG/KG	Q	
51-28-5	2,4-Dinitrophenol	1700	U	1
100-02-7	4-Nitrophenol	_ 690	U	
121-14-2	2,4-Dinitrotoluene	350	U	
	Diethylphthalate	350	U	
7005 72 2	4-Chlorophenyl-phenylether	_ 350 350	U	
1003-72-3-	Fluorene	- 80	J	
	4-Nitroaniline	I	U	
	4,6-Dinitro-2-methylphenol	_ 690 690	Ü	
06 30 6	N-Nitrosodiphenylamine (1)	- 350 350	1	ļ
	4-Bromophenyl-phenylether	- 350 350	U	
	·Hexachlorobenzene		+ -	
	·Atrazine	350	U	1
	Pentachlorophenol	350	U	
07-00-3	Dhonanthrono	_ 350	U	
120 12 7	Phenanthrene	530		
	Carbazole	120	J	1
	Di-n-butylphthalate	350	U	
	·Fluoranthene	350	U	
		660	ļ	
129-00-0	Pyrene	1000		
85-68-7	Butylbenzylphthalate	350	U	
91-94-1	big(2 othylboyyl) Phthe	350	Ţ	1
	bis(2-ethylhexyl)Phthalate_	_ 160	J	
	Benzo(a)anthracene	420	ļ 	
	Chrysene	_ 450	ļ	
	Di-n-octylphthalate	350	U	1 1
205-99-2	Benzo(b)fluoranthene	_ 660	XJ	4/11/3
	Benzo(k)fluoranthene	_ 680		'' -
	Benzo(a)pyrene	_ 330	J	
	Indeno(1,2,3-cd)pyrene	_ 260	Ţ	
	Dibenzo(a, h) anthracene	_ 110	J	
191-24-2	Benzo(g,h,i)perylene	_ 270	J	
(1) - Cannot	be separated from Diphenylamine	_	. 1	1
(2)	FORM I SV		8	270C
	·		0	

SS-SB03-4

Lab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: R2812

Matrix: (soil/water) SOIL Lab Sample ID: R2812-4

Sample wt/vol: 30.0 (g/mL) G Lab File ID: R2812-4A64

Level: (low/med) LOW Date Received: 12/06/02

% Moisture: 17 decanted: (Y/N) N Date Extracted:12/10/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/16/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

100-52-7	-Benzaldehyde	400	U
108-95-2	-Phenol	400	U
111-44-4	-Bis(2-chloroethyl)ether	400	U
95-57-8	2-Chlorophenol	400	U
95-48-7	2-Methylphenol	400	U
108-60-1	-2,2'-oxybis(1-Chloropropane)	400	U
98-86-2	Acetophenone	400	U
106-44-5	-4-Methylphenol	400	U
621-64-7	-N-Nitroso-di-N-propylamine_	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	-Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5 	-2-Nitrophenol	400	U
105-67-9	-2,4-Dimethylphenol	400	שׁ
111-91-1	-2,4-Dimethylphenol -Bis(2-chloroethoxy)methane	400	U
120-83-2	-2,4-Dichlorophenol	400	U
91-20-3	-Naphthalene	400	U
106-47-8	-4-Chloroaniline	400	บ
87-68-3- 	-Hexachlorobutadiene	400	บ
105-60-2	-Caprolactam	400	ប
59 - 50-7	-4-Chloro-3-methylphenol	400	ប
91-57-6	-2-Methylnaphthalene	400	Ū
77-47-4	Hexachlorocyclopentadiene	400	lυ
88-06-2 	2,4,6-Trichlorophenol	400	ΙŪ
95 - 95 -4	-2,4,5-Trichlorophenol	400	Ū
92-52-4	-1,1'-Biphenvl	400	Ū
91-58-7 	-2-Chloronaphthalene	400	ΙŪ
88-74-4	-2-Nitroaniline	800	Ŭ
131-11-3	Dimethylphthalate	400	Ŭ
606-20-2- 	-2.6-Dinitrotoluene	400	Ŭ
208-96-8	Acenaphthylene L	32	J
99-09-2	3-Nitroaniline	800	Ü
	-Acenaphthene	400	Ŭ

44

CLIENT SAMPLE NO.

SS-SB03-4

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-4

Sample wt/vol:

30.0 (g/mL) G

Lab File ID: R2812-4A64

Level:

(low/med)

LOW

Date Received: 12/06/02

% Moisture: 17

decanted: (Y/N) N

Date Extracted:12/10/02

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 12/16/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: ____

CAS NO.	COMPOUND	CONCENTRA (ug/L or			Q
51-28-5	2,4-Dinitroph	enol		2000	U
100-02-7	4-Nitrophenol			800	Ιŭ
121-14-2	2,4-Dinitroto	luene		400	Ŭ
	Dibenzofuran		<u> </u>	400	Ü
	Diethylphthal	ate		400	ϋ
7005-72-3	4-Chloropheny	l-phenylether		400	ϋ
	Fluorene	<u> </u>	_	400	Ŭ
	4-Nitroanilin	e		800	Ū
534-52-1	4,6-Dinitro-2	-methylpheno		800	Ū
86-30-6	N-Nitrosodiph	enylamine (1)		400	Ū
101-55-3	4-Bromophenyl	-phenylether		400	Ū
118-74-1	Hexachloroben	zene -		400	Ū
	Atrazine			400	Ū
87-86-5	Pentachloroph	enol		400	U
	Phenanthrene			120	J
120-12-7	Anthracene		 ,	400	שׁ
86-74-8	Carbazole			400	U
84-74-2	Di-n-butylpht	halate		400	U
206-44-0	Fluoranthene			150	J
129-00-0	Pyrene			220	J
85-68-7	Butylbenzylph	thalate		400	U
91-94-1	3,3'-Dichloro	benzidine		400	ַ ט
117-81-7	bis(2-ethylhe	xyl)Phthalate	≘	260	J
56-55-3	Benzo(a)anthr	acene		83	J
218-01-9	Chrysene			97	J
117-84-0	Di-n-octylpht	halate		43	J
205-99-2	Benzo(b)fluor	anthene		80	J
207-08-9	Benzo(k)fluor	anthene		79	J
50-32-8	Benzo(a)pyren	e		58	J
193-39-5	Indeno (1, 2, 3 -	cd)pyrene		52	J
53-70-3	Dibenzo(a,h) a	nthracene	_	400	U
191-24-2	Benzo(g,h,i)p	erylene		56	J
- Cannot be	separated from D FORM				1

SS-SB04-0

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY

Case No.: SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-11

Sample wt/vol:

30.0 (g/mL) G

Lab File ID: R2812-11DA64

Level: (low/med) LOW

Date Received: 12/06/02

% Moisture: 9

decanted: (Y/N) N

Date Extracted:12/10/02

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 12/16/02

Injection Volume: 1.0(uL)

Dilution Factor: 3.0

GPC Cleanup: (Y/N) N

pH: ____

CAS NO.	COMPOUND	CONCENTRATION (ug/L or ug/Kg		Q
100-52-7	Benzaldehyde		1100	U
108-95-2	Phenol		1100	ι I
111-44-4	Bis(2-chloroeth	vl)ether	1100	ŭ
95-57-8	2-Chlorophenol		1100	lü l
95-48-7	2-Methylphenol		1100	lŭ l
108-60-1	2,2'-oxvbis(1-C	hloropropanel	1100	lŭ
98-86-2	Acetophenone		1100	lŭ l
106-44-5	4-Methylphenol		1100	lŭ l
621-64-7	N-Nitroso-di-N-	propylamine	1100	lŭ l
67-72-1	Hexachloroethan	e - []	1100	lŭ l
98-95-3	Nitrobenzene		1100	lŭ
78-59-1	Isophorone		1100	Ŭ
88-75-5	2-Nitrophenol		1100	ŭ l
105-67-9	2,4-Dimethylphe	nol	1100	lŭ l
111-91-1	Bis(2-chloroeth	oxy met hane	1100	lŭ l
120-83-2	2,4-Dichlorophe	noi —	1100	ΙŬ
91-20-3	Naphthalene		190	Ĵ
106-47-8	4-Chloroaniline		1100	Ü
87-68-3	Hexachlorobutad	iene	1100	lŭ l
105-60-2	Caprolactam		1100	lŭ l
59-50-7 -	4-Chloro-3- <u>meth</u>	vlphenol	1100	lŭ [
91-57-6	2-Methylnaphtha	lene	510	ĬĴ
77-47-4	Hexachlorocyclo	pentadiene	1100	lŭ l
88-06-2	2,4,6-Trichloro	phenol —	1100	lŭ l
95-95-4	2.4.5-Trichloro	phenol	1100	lŭ l
92-52-4	1.1'-Biphenvl		120	ĴĴ
91-58-7	2-Chloronaphtha	lene	1100	lŭ l
88-74-4	2-Nitroaniline		2200	lŭ l
131-11-3	Dimethylphthala	te	1100	lŭ l
606-20-2	2,6-Dinitrotolu	ene	1100	lŭ l
208-96-8	Acenaphthylene		1400	1 -
99-09-2	3-Nitroaniline		2200	U
83-32-9	Acenaphthene		240	J
	FORM I	sv		82

CLIENT SAMPLE NO.

SS-SB04-0

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-11

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2812-11DA64

Level: (low/med) LOW

Date Received: 12/06/02

% Moisture: 9 decanted: (Y/N) N

Date Extracted:12/10/02

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 12/16/02

Injection Volume: 1.0(uL)

Dilution Factor: 3.0

CONCENTRATION UNITS:

GPC Cleanup: (Y/N) N

pH: ____

CAS NO.	COMPOUND	(ug/L or ug		Q
51-28-5	2,4-Dinitroph	enol	5500	U
100-02-7	4-Nitrophenol	·	2200	Ū
121-14-2	2,4-Dinitroto	luene	1100	Ü
132-64-9	Dibenzofuran		300	ĴĴ
84-66-2	Diethylphthal	ate	1100	Ŭ
7005-72-3	4-Chloropheny	1-phenylether	1100	υ
86-73-7	Fluorene	-	500	Ĵ
100-01-6	4-Nitroa nilin	.e	2200	ĺΰ
534-52-1	4,6-Dinitro-2	-methylphenol	2200	Ŭ
86-30-6	N-Nitrosodiph	envlamine (1)	1100	Ŭ
101-55-3	4-Bromophenvl	-phenylether -	1100	Ŭ
118-74-1	Hexachloroben	zene	1100	Ŭ
1912-24-9	Atrazine		1100	ϋ
87-86-5	Pentachloroph	enol	1100	Ŭ
85-01-8	Phenanthrene		4500	1
120-12-7	Anthracene		1100	J
86-74-8	Carbazole		150	J
84-74-2	Di-n-butylpht	halate	1100	ĺΰ
206-44-0	Fluoranthene		6300	"
129-00-0	Pyrene -		11000	— —
85-68-7	Butylbenzylph	thalate	1100	l u
91-94-1	3,3'-Dichloro	benzidi <u>ne</u>	1100	ĺυ.
117-81-7	bis(2-ethvlhe	xvl)Phthalate	1100	ΙÜ
56 - 55-3	Benzo(a)anthr	acene	4300	ľ
218-01-9	Chrvsene		5000	
117-84-0	Di-n-octylpht	halate	1100	Ū
205-99-2 -	·Benzo(b)fluor	anthene	5100	Ĭ
207-08 - 9	Benzo(k)fluor	anthene	3600	1
50-32-8	·Benzo (a) pyren	e	4000	1
193 - 39-5	Indeno (1.2.3-	cd pyrene	2600	
53-70-3	·Dibenzo(a.h)a	nthracene	910	J
191-24-2	Benzo(g,h,i)p	erylene ———	2500	
	separated from D			_

SS-SB04-1

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-12

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2812-12A64

Level: (low/med) LOW

Date Received: 12/06/02

% Moisture: 9

decanted: (Y/N) N

Date Extracted:12/10/02

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 12/16/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: ____

CAS NO.	COMPOUND	CONCENTRA (ug/L or	ATION U ug/Kg)	NITS: UG/KG	Q
100-52-7	Benzaldehyde			360	U
108-95-2	Phenol			360	υ
111-44-4	Bis(2-chloroet	hvl)ether		360	Ιŭ
95-57-8	2-Chlorophenol			360	υ
95-48-7	2-Methylphenol			360	υ
108-60-1	2,2'-oxybis(1-	Chloropropa	neT	360	Ŭ
98-86-2	Acetophenone	omroropropu.	,	360	lΰ
106-44-5	4-Methylphenol			360	Ü
621-64-7	N-Nitroso-di-N	-propylamine		360	Ŭ
67-72-1	Hexachloroetha	ne		360	Ü
98-95-3	Nitrobenzene			360	ΰ
	Isophorone		 -i	360	Ü
	2-Nitrophenol			360	Ü
105-67-9	2,4-Dimethylph	enol		360	Ιŭ
111-91-1	Bis(2-chloroet	hoxy met hane	<u></u>	360	υ
120-83-2	2,4-Dichloroph	enol	-	360	lΰ
	Naphthalene			360	Ü
106-47-8	4-ChloroaniTin	ë		360	Ŭ
87-68-3	Hexachlorobuta	diene		360	ŭ
105-60-2	Caprolactam			360	Ü
59-50-7	4-Chloro-3-met	hvlphenol		360	υ
91-57-6	2-Methylnaphth	alene		360	Ŭ
77-47-4	Hexachlorocycl	opentadiene		360	บั
88-06-2	2,4,6-Trichlor	ophenol	—	360	Ŭ
	2,4,5-Trichlor			360	Ŭ
92-52-4	1,1'-Biphenvl	<u></u>		360	Ιŭ
91-58-7	2-Chloronaphth	alene		360	Ü
88-74-4	2-Nitroaniline			730	Ŭ
131-11-3	Dimethylphthal	ate		360	Ū
606-20-2	2,6 - Dinitrotol	uene	 1	360	ϋ
208-96-8	Acenaphthylene			150	J
99-09-2	3-Nitroaniline			730	Ū
83-32-9	Acenaphthene			360	Ŭ
	FORM I	SV	·		'

CLIENT SAMPLE NO.

SS-SB04-1

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-12

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2812-12A64

Level: (low/med) LOW

Date Received: 12/06/02

% Moisture: 9 decanted: (Y/N) N

Date Extracted:12/10/02

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 12/16/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

CONCENTRATION UNITS:

GPC Cleanup: (Y/N) N

pH: ___

CAS NO.	COMPOUND	(ug/L or ug/Ko		Q
51-28-5	2,4-Dinitrophe	enol	1800	U
	4-Nitrophenol		730	U I
	2,4-Dinitroto	uene	360	ן ט
	Dibenzofuran		360	U
84-66-2	$$ Diethylphtha Ta	ite	360	U
7005-72-3	4-Chlorophenyl	-phenylether	360	U
86-73-7	Fluorene	·	46	J
100-01-6	4-Nitroaniline		730	Ū
534-52-1	4,6-Dinitro-2-	methylphenol	730	Ū
86-30-6	N-Nitrosodiphe	enylamine (1)	360	lυ l
101-55-3	4-Bromophenyl-	phenylether	360	ŭ
118-74-1	Hexachlorobenz	zene '	360	lυ l
1912-24-9	Atrazine		360	ŭ
87-86-5	Pentachlorophe	enol	360	lŭ l
85-01-8	Phenanthrene		440	
	Anthracene —		110	J
86-74-8	Carbazole		360	Ū
84-74-2	Di-n-butylphtl	nalate	360	lu l
206-44-0	Fluoranthene		750	
129-00-0			1400	
85-68-7	Butylbenzylpht	halate	360	U
91-94-1	3,3'-Dichlorok	enzidine	360	Ū
117-81-7	bis(2-ethylhe	vl)Phthalate	96	J
56-55-3	Benzo(a)anthra	cene	510	
218-01-9	Chrysene		570	
	Di-n-octylphth	nalate	360	l u
205-99-2	Benzo(b)fluora	inthene	570	
207-08-9	Benzo(k) fluora	inthene	460	
50-32-8	Benzo (a) pyrene		450	i
193-39-5	Indeno(1,2,3-c	d) pyrene	310	J
53-70-3	Dibenzo(a,h) ar	thracene	110	J
191-24-2	Benzo(g,h,i)pe	erylene	310	J
1) - Cannot be	separated from Di			I
	FORM]	SV		82

SS-SB04-4

Lab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL Lab Sample ID: R2812-13

Sample wt/vol: 30.0 (g/mL) G Lab File ID: R2812-13A64

Level: (low/med) LOW Date Received: 12/06/02

% Moisture: 19 decanted: (Y/N) NDate Extracted:12/10/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/16/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q

CAS NO.	COMPOUND (ug/L or ug/F	(g) UG/KG	Q
100-52-7	Benzaldehyde	410	U
108-95-2	Phenol	410	lŭ l
111-44-4	Bis(2-chloroethyl)ether	410	Ŭ
95-57-8	2-Chlorophenol	410	Ŭ
95-48-7	2-Methylphenol	410	lŭ l
108-60-1	2,2'-oxybis(1-Chloropropane)	410	ŭ
98-86-2	Acetophenone	410	lŭ l
106-44-5	4-Methylphenol	410	lŭ l
621-64-7	N-Nitroso-di-N-propylamine	410	lŭ l
67-72-1	Hexachloroethane —	410	lữ l
98-95-3	Nitrobenzene	410	Ū
78-59-1	Isophorone	410	Ū
88-75-5	2-Nitrophenol	410	ΙŬ Ι
105-67-9	2,4-Dimethylphenol	410	Ū
111-91-1	Bis(2-chloroethoxy)methane	410	lŭ l
120-83-2	2,4-Dichlorophenol	410	Ιυ Ι
91-20-3	Naphthalene	31	J
106-47-8	4-Chloroaniline	410	U I
87-68-3	Hexachlorobutadiene	410	ΙŪ Ι
105-60-2	Caprolactam	410	0
59-50-7	4-Chloro-3-methylphenol	410	Ū 1
91-57-6	2-Methylnaphthalene	94	J
77-47-4	Hexachlorocyclopentadiene	410	ן ט
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	410	U
92-52-4 <i></i>	1,1'-Biphenyl	410	ן ט ן
91-58-7	2-Chloronaphthalene	410	ן ט
88-74-4	2-Nitroaniline	810	ן ט
131-11-3	Dimethylphthalate	410	lΰ
606-20-2	2,6-Dinitrotoluene	410	Ū
208-96-8	Acenaphthylene	450	
99-09-2	3-Nitroaniline	810	$ \overline{U} $
83-32-9	Acenaphthene	68	J
	FORM I SV		82

CLIENT SAMPLE NO.

SS-SB04-4

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-13

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2812-13A64

Level: (low/med) LOW

Date Received: 12/06/02

% Moisture: 19 decanted: (Y/N) N

Date Extracted:12/10/02

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 12/16/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

CONCENTRATION UNITS.

GPC Cleanup: (Y/N) N

pH: ____

CAS NO.	COMPOUND	(ug/L or ug		Q
51-28-5	2,4-Dinitroph	enol	2000	U
100-02-7	4-Nitrophenol		810	ΙŪ
121-14-2	2,4-Dinitroto	luene	410	Ū
132-64-9	Dibenzofuran		73	J
84-66-2	Diethylphtha ${ t I}$	ate	410	Ū
7005-72-3	4-Chloropheny	1-phenylether	410	Ū
86-73-7	Fluorene		140	J
100-01-6	4-Nitroanilin	e	810	Ū
534-52-1	4,6-Dinitro-2	-methylphenol	810	Ū
86-30-6	N-Nitrosodiph	envlamine (1)	410	Ü
101-55-3	4-Bromophenvl	-phenylether —	410	Ū
118-74-1	Hexachloroben	zene	410	Ū
1912-24-9	Atrazine		410	Ŭ
87-86-5	Pentachloroph	enol	410	ĺΰ
85-01-8	Phenanthrene		1400	•
120-12-7	Anthracene		360	J
86-74-8	Carbazole		48	J
84-74-2	Di-n-butylpht	halate	410	ΙŪ
206-44-0	Fluoranthene		2300	
129-00-0	Pyrene -		4000	
85-68-7	Butylbenzylph	thalate	410	Ū
91-94-1	3,3 ⁷ -Dichloro	benzidi <u>ne</u>	41	Ĵ
117-81-7	bis(2-ethvlhe	xvl) Phthalate	260	ĴĴ
56-55-3	·Benzo(a)anthr	acene	1500	1
218-01-9	Chrysene		1800	
117-84-0	Di-n-octylpht	halate	410	Ū
205-99-2	Benzo(b)fluor	anthene	2000	1
207-08-9	Benzo(k)fluor	anthene	1300	
50-32-8	Benzo(a)pyren	e	1400	1
193-39-5	Indeno (1, 2, 3-	cd) pyrene	950	1
53-70-3	·Dibenzo(a.h)a	nthracene	350	J
191-24-2	Benzo(g,h,i)p	erylene	900	<u> </u>
- Cannot be	separated from D	iphenylamine		.1
	FORM	I SV -		

CLIENT SAMPLE NO.

SS-SB05-0

Lab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: R2812

Matrix: (soil/water) SOIL Lab Sample ID: R2812-14

Sample wt/vol: 30.0 (g/mL) G Lab File ID: R2812-14DB64

Level: (low/med) LOW Date Received: 12/06/02

% Moisture: 6 decanted: (Y/N) N Date Extracted:12/10/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/17/02

Injection Volume: 1.0(uL) Dilution Factor: 3.0

GPC Cleanup: (Y/N) N pH: ____

> CONCENTRATION UNITS: CAS NO COMPOIND

100-52-7	Benzaldehyde		1
		1100	U
108-95-2		1100	U
	Bis(2-chloroethyl)ether	1100	lö l
95-57-8	2-Chlorophenol	1100	lŭ l
95-48-7	2-Methylphenol	1100	lü l
108-60-1	2,2'-oxybis(1-Chloropropane)	1100	lü l
98-86-2	Acetophenone	1100	lö l
106-44-5	4-Methylphenol	1100	lŭ l
621-64-7	N-Nitroso-di-N-propylamine	1100	lΰ
67-72-1	Hexachloroethane	1100	Ιŭ
98-95-3	Nitrobenzene	1100	lŭ l
	Isophorone	1100	lŭ l
88-75-5	2-Nitrophenol	1100	Ŭ
105-67-9	2,4-Dimethylphenol	1100	lŭ l
111-91-1	Bis(2-chloroethoxy)methane	1100	υ
120-83-2	2,4-Dichlorophenol	1100	Ιŭ
91-20-3	Naphthalene	120	J
106-47-8	4-Chloroaniline	1100	lΰ
	Hexachlorobutadiene	1100	Ŭ
105-60-2	Caprolactam	1100	اق
59-50-7	4-Chloro-3-methylphenol	1100	ŭ
91-57-6	2-Methylnaphthalene	490	J
77-47-4	Hexachlorocyclopentadiene	1100	lŭ l
88-06-2	2,4,6-Trichlorophenol	1100	lŭ
95-95-4	2,4,5-Trichlorophenol	1100	lŭ l
92-52-4	1,1'-Biphenyl	85	ĬĴ
91-58-7	2-Chloronaphthalene	1100	บั
88-74-4	2-Nitroaniline	2100	lŭ l
131-11-3	Dimethylphthalate	1100	Ŭ
606-20-2	2,6-Dinitrotoluene	1100	lŭ l
208-96-8	Acenaphthylene	900	J
99-09-2	3-Nitroaniline	2100	บั
83-32-9	Acenaphthene	1100	Ü
	FORM I SV	····	' <u>8</u> 17

CLIENT SAMPLE NO.

SS-SB05-0

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-14

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2812-14DB64

Level: (low/med) LOW

Date Received: 12/06/02

% Moisture: 6 decanted: (Y/N) N

Date Extracted:12/10/02

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 12/17/02

Injection Volume: 1.0(uL)

Dilution Factor: 3.0

GPC Cleanup: (Y/N) N

pH: ____

	CAS NO.	COMPOUND	CONCENTRATIO		Q	
(1	100-02-7 121-14-2 132-64-9 84-66-2 7005-72-3 86-73-7 100-01-6 534-52-1 86-30-6 101-55-3 118-74-1 1912-24-9 87-86-5 85-01-8 120-12-7 86-74-8 206-44-0 129-00-0 85-68-7 91-94-1 117-81-7 56-55-3 218-01-9 117-84-0 205-99-2 207-08-9 193-39-5 191-24-2	2,4-Dinitropher4-Nitrophenol2,4-DinitrotolDibenzofuranDiethylphthala4-ChlorophenylFluorene4,6-Dinitro-2-eNitrosodipher4-BromophenylHexachlorobenzeAtrazinePentachloropherPhenanthreneCarbazoleDi-n-butylphtheFluoranthenePyreneButylbenzylphtheButylbenzylphtheBenzo(a) anthraceChryseneDi-n-octylphtheBenzo(b) fluorarBenzo(b) fluorarBenzo(a) pyreneIndeno(1,2,3-complete)	methylphenol mylamine (1) phenylether methylphenol mylamine (1) phenylether mol malate malate malate malate myl) Phthalate cene malate myl) Phthalate cene myl) Phthalate m	5300 2100 1100 230 1100 1100 67 2100 2100 1100 1100 1100 1100 3700 750 120 1100 4500 8200 1100 1100 3300 3700 1100 3400 3200 2000 690 1900	משל של השם שנת שששמשמשמש	3/200
		LOKA T	. v		82	70C

SS-SB05-1

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-15

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2812-15B64

Level: (low/med) LOW

Date Received: 12/06/02

% Moisture: 6 decanted: (Y/N) N

Date Extracted:12/10/02

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 12/17/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION (ug/L or ug/Kg)		Q
100-52-7	Benzaldehyde		350	ט
108-95-2	Phenol		350	lŭ l
111-44-4	Bis(2-chloroethy))ether	350	ا ت
95-57-8	2-Chlorophenol		350	ľŬ
95-48-7	2-Methvlphenol		350	lŭ l
108-60-1	2,2'-oxvbis(1- Ch]	loropropane)	350	שׁן שׁ
98-86-2	Acetophenone	1 1 1	350	ا تا ا
106-44-5	4-Methylphenol		350	Ιυ Ι
621-64-7	N-Nitroso-di-N-pr	copylamine	350	lŭ l
67-72-1	Hexachloroethane		350	lŭ l
98-95-3	Nitrobenzene -		350	ŭ
78-59-1	Isophorone		350	ا تا
88-75-5	2-Nitrophenol		350	lŭ l
105-67-9	2,4-Dimethylpheno	51	350	lu l
111-91-1	Bis(2-chloroethox	(v) met hane	350	l ŭ l
120-83-2	2,4-Dichloropheno	1	350	lŭ l
91-20-3	Naphthalene		350	Ü
106-47-8	4-Chloroaniline		350	lΰ
87-68-3	Hexachlorobutadle	ene	350	ا تا
105-60-2	Caprolactam		350	ן ש
59-50-7	4-Chloro-3-methyl	phenol	350	ŭ
91 - 57-6	2-Methylnaphthale	ene	350	Ŭ
77 -47-4	Hexachlorocyclope	entadiene	350	Ü
88-06-2	2.4.6-Trichloroph	nenol —	350	U
95-95-4	2.4.5-Trichloroph	nenol	350	lυ
92-52-4	1,1'-Biphenvl		350	υ
91 -58-7 -	2-Chloronaphthale	ene	350	ا تا
88-74-4	2-Nitroaniline		700	U
131-11-3	Dimethylphthalate		350	lŭ l
606-20-2	2,6-Dinitrotoluer	ne	350 350	ا قا
208-96-8	Acenaphthylene		21	lj l
99-09-2	3-Nitroaniline		700	ŭ
83-32-9	Acenaphthene		350	ا قا
			220	ا ا

CLIENT SAMPLE NO.

SS-SB05-1

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-15

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

R2812-15B64

Level: (low/med) LOW

Date Received: 12/06/02

% Moisture: 6 decanted: (Y/N) N

Date Extracted:12/10/02

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 12/17/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: ____

CAS NO.	COMPOUND	CONCEN (ug/L	TRATION U	NITS: UG/KG	Q	
100-02-7	-2,4-Dinitrotoluer -Dibenzofuran -Diethylphthalate -4-Chlorophenyl-phe-Fluorene -4-Nitroaniline -4,6-Dinitro-2-met -N-Nitrosodiphenyl-phe-Hexachlorobenzene -Atrazine -Pentachlorophenol -Phenanthrene -Anthracene -Carbazole -Di-n-butylphthala-fluoranthene -Butylbenzylphthala-3,3'-Dichlorobenz -bis(2-ethylhexyl) -Benzo(a)anthracene -Chrysene -Di-n-octylphthala-Benzo(b)fluoranth-Benzo(a)pyrene -Indeno(1,2,3-cd)p-Dibenzo(a,h)anthracene -Di-benzo(a,h)anthracene -Di-benzo(a,h)anthracene	ate ate ate ate ate ate ate ate ate ate	nol (1) erate_	1800 7000 3500 3500 3500 3500 3500 3500 35	המניניניניניניניניניניניניניניניניניניני	3/20/2
	FORM I SV	, -			82	270C

SS-SB05-4

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-16

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2812-16B64

Level: (low/med) LOW

Date Received: 12/06/02

% Moisture: 19

decanted: (Y/N) N

Date Extracted:12/10/02

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 12/17/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

CONCENTRATION UNITS:

GPC Cleanup: (Y/N) N

pH: ____

100-52-7	Benzaldehyde	410	U
108-95-2	Phenol	410	บ็
111-44-4	Bis(2-chloroethyl)ether	410	Ü
95-57-8	2-Chlorophenol	410	Ü
95-48-7	2-Methylphenol	410	บ็
108-60-1	2,2'-oxybis(1-Chloropropane)	410	υ
98-86-2	Acetophenone	410	Ü
106-44-5	4-Methylphenol	410	บั
621-64-7	N-Nitroso-di-N-propylamine	410	ΰ
67-72-1	Hexachloroethane	410	Ü
98-95-3	Nitrobenzene	410	ΰ
78-59-1	Isophorone	410	Ŭ
88-75-5	2-Nitrophenol	410	Ü
105-67-9	2,4-Dimethylphenol	410	Ū
111-91-1	Bis(2-chloroethoxy)methane	410	Ü
120-83-2	2,4-Dichlorophenol —	410	Ŭ
91-20-3	Naphthalene	410	Ιŭ
106-47-8	4-Chloroaniline	410	Ū
87-68-3	Hexachlorobutadiene	410	υ
105-60-2	Caprolactam	410	Ŭ
59-50-7	4-Chloro-3-methylphenol	410	Ϊ́υ
91-57-6	2-Methylnaphthalene	49	Ĵ
77-47-4	Hexachlorocyclopentadiene	410	ϋ
88-06-2	2,4,6-Trichlorophenol	410	ΙŪ
95-95 - 4	2,4,5-Trichlorophenol	410	Ū
92-52-4	1,1'-Biphenyl	410	Ιΰ
91-58-7	2-Chloronaphthalene	410	Ū
88-74-4	2-Nitroaniline	810	Ŭ
131 - 11 - 3	Dimethylphthalate	410	Ū
606-20-2	2,6-Dinitrotoluene	410	Ū
208-96-8	Acenaphthylene	74	IJ
99-09-2	3-Nitroaniline	810	Ū
83 - 32-9	Acenaphthene	410	Ü

SDG No.: R2812

SS-SB05-4

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.:

Matrix: (soil/water) SOIL Lab Sample ID: R2812-16

Sample wt/vol: 30.0 (g/mL) GLab File ID: R2812-16B64

Level: (low/med) LOW Date Received: 12/06/02

% Moisture: 19 decanted: (Y/N) N Date Extracted:12/10/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/17/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

> CONCENTRATION UNITS: CAS NO. COMPOUND

CAS NO.	COMPOUND	(ug/L or	ug/Kg)	UG/KG	Q	
51-28-5 100-02-7 121-14-2 132-64-9 84-66-2 7005-72-3 86-73-7 100-01-6 534-52-1 86-30-6 101-55-3 118-74-1 1912-24-9 87-86-5 85-01-8 120-12-7 86-74-8 129-00-0 85-68-7 206-44-0 129-00-0 85-68-7 117-81-7 117-81-7 56-55-3 218-01-9 117-84-0 205-99-2 207-08-9 50-32-8 193-39-5 53-70-3	2,4-Dinitrophe4-Nitrophenol2,4-DinitrotolDibenzofuranDiethylphthala4-ChlorophenylFluorene4,6-Dinitro-2N-Nitrosodiphe4-BromophenylHexachlorobenzAtrazinePentachlorophePhenanthreneCarbazoleDi-n-butylphthFluoranthenePyreneButylbenzylpht3,3'-Dichlorobbis(2-ethylhexBenzo(a)anthra	enol		2000 810 410 410 410 410 410 410 410 410 410 4	לינינינינים מם ממנימממממממממ Q	3/26/3
	separated from Di FORM I	phenylamine				 270C

SSMW10-1

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-1

Sample wt/vol:

30.0 (g/mL) G

Lab File ID: R2812-1A64

Level: (low/med) LOW

Date Received: 12/04/02

% Moisture: 9

decanted: (Y/N) N

Date Extracted:12/08/02

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 12/13/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTR (ug/L or			Q	
100-52-7	Benzaldehyde			360	U	
108-95-2	Phenol - —			360	Ŭ	
111-44-4	Bis(2-chloroet	hvl)ether		360	Ŭ	
95-57-8	2-Chlorophenol			360	Ŭ	
95-48-7	2-Methylphenol			360	Ü	
108-60-1	2,2'-oxybis(1-	Chloropropa	ne)	360	Ŭ	
98-86-2	Acetophenone	<u>I</u> . = • <u>I</u> . •	/	360	Ŭ	
106-44-5	4-Methylpheno			360	Ü	
621-64-7	N-Nitroso-di-N	V-propylamin	<u> </u>	360	Ŭ	ĺ
67-72-1	Hexachloroetha	ine		360	Ŭ	
98-95-3	Nitrobenzene			360	Ŭ	
78-59-1	Isophorone			360	บี	
88-75-5	2-Nitrophenol			360	Ιŭ	1
105-67-9	2,4-Dimethylph	ienol	 1	360	Ū	- [
111-91-1	Bis(2-chloroet	hoxy methan	<u> </u>	360	Ü	
120-83-2	2,4-Dichloroph	nenol	~ _	360	Ü	
91-20-3	Naphthalene			360	υ	
106-47-8	4-ChloroaniTir	ie .	——— I	360	lΰ	}
87-68-3	Hexachlorobuta	diene		360	Ü	i
105-60-2	Caprolactam			360	lΰ	ı
59-50-7	4-Chloro-3-met	hylphenol		360	บั	
91-57-6	2-Methylnaphth	nalene		360	บ็	1
77-47-4	Hexachlorocyc	opentadiene		360	lΰ	
88-06-2	2,4,6-Trichlor	cophenol		360	บ็	
95-95-4	2,4,5-Trichlon	cophenol		360	υ	ł
92-52-4	1,1'-Biphenyl	- op.::c:::c1		360	ΰ	-
91-58-7	2-Chloronapht	alene		360	שׁן	İ
88-74-4	2-Nitroaniline			730	lΰ	1
131-11-3	Dimethylphthal	ate		360	บ็	-
606-20-2	2,6-Dinitroto	uene		360	lΰ	
208-96-8	Acenaphthylene			360 360	ט	
99-09-2	3-Nitroaniline	<u></u>		730	Ü	
83-32-9	Acenaphthene		 -}	360	Ü	-
- - -		- · ·	 1	300	١	
	FORM]	SV			·	-1 327

SSMW10-1

Lab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-1

Sample wt/vol:

30.0 (g/mL) G

Lab File ID: R2812-1A64

Level: (low/med) LOW

Date Received: 12/04/02

% Moisture: 9 decanted: (Y/N) N

Date Extracted:12/08/02

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 12/13/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

CONCENTRATION UNITS:

GPC Cleanup: (Y/N) N

(

pH:

CAS NO.	COMPOUND	(ug/L or ug/K		Q
51-28-5	2,4-Dinitrophenol		1800	U
100-02-7	4-Nitrophenol		730	Ū
121-14-2	2,4-DinitrotoTuer	ie	360	Ū
132-64-9	Dibenzofuran		360	Ū
84-66-2	Diethylphthalate		360	Ū
7005-72-3	4-Chlorophenyl-ph	nenylether	360	U
86-73-7	Fluorene	-	360	U
100-01-6	4-Nitroaniline		730	U
534 - 52-1	4,6-Dinitro-2-met	hylphenol	730	U
86 - 30-6	N-Nitrosodiphenyl	lamine (1)	360	U
101-55-3	4-Bromophenyl-phe	enylether 🔠	360	Ū
118-74-1	Hexachlorobenzene	3	360	U
1912 - 24-9	Atrazine		360	U
87-86-5	Pentachlorophenol		360	U
85-01 - 8	Phenanthrene		360	U
	Anthracene		360	U
	Carbazole		360	U
84-74-2	Di-n-butylphthala	ate	360	U
206-44-0	Fluoranthene		360	Ū
129-00-0	Pyrene		360	ט
35-68-7	Butylbenzylphthal	late	360	U
91-94-1	3,3'-Dichlorobenz	zidine	360	U
1 17- 81 - 7	bis(2-ethylhexvl)	Phthalate	360	U
56-55-3	Benzo(a)anthracer	ie —	360	ט
218-01-9 -	Chrysene		360	Ū
117-84-0	Di-n-octylphthala	ate	360	บ
205-99-2	Benzo(b)fluoranth	nene	360	Ū
207 - 08-9 <i>-</i>	Benzo(k)fluoranth	nene	360	υ
50-32-8	Benzo(a)pyrene		360	Ū
L93-39-5 -	Indeno(1,2,3-cd)r	yrene	360	Ū
53-70-3	Dibenzo(a,h)anthr	cacene	360	Ū
191-24-2	Benzo(g,h,i)peryl	lene	360	Ū
- Cannot be	separated from Diphe	nylamine		1
	FORM I SV	/		

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SS-MW11-0

Lab	Name:	COMPUCHEM
1100	HUILLO .	COLLE O CITALLE

Method: 8270C

Lab Code: LIBRTY

Case No.:

LOW

SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-17

Sample wt/vol:

30.0 (g/mL) G

Lab File ID: R2812-17B64

Level: (low/med)

Date Received: 12/06/02

% Moisture: 9

decanted: (Y/N) N

Date Extracted:12/10/02

Concentrated Extract Volume:

1000 (uL)

Date Analyzed: 12/18/02

Injection Volume:

1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup:

(Y/N) N

pH:

Number TICs found: 3

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg 3/20/03

CAS NUMBER	· COMPOUND NAME	RT	EST. CONC.	Q
	UNKNOWN (BC)	5.32	240	_
2.	UNKNOWN (BC)	5.62	1100	
3.	UNKNOWN	23.15		JT
4.				- 4
5.				
6.				-
7.		<u> </u>		
8.				
9.				
0.			···· ···· ··· ··· ··· ··· ··· ··· ···	
· •				
. .				-
.3.				
4.		_		
.5.				
.6.				
.7.				
.8.				
. .				
i 🗸 .				
.J.				
4.				
25.				
26.				
. / .				
0.				

FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SS-SB01-0

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-8

Sample wt/vol:

30.0 (g/mL) G

Lab File ID:

R2812-8A64

Level:

LOW

Date Received: 12/06/02

(low/med)

Concentrated Extract Volume:

decanted: (Y/N) N

Date Extracted:12/10/02

% Moisture: 1

1000 (uL)

Date Analyzed: 12/16/02

Injection Volume:

1.0(uL)

Dilution Factor: 1.0

GPC Cleanup:

(Y/N) N

pH:___

Number TICs found: 17

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC)		==========	
2. 571-58-4		5.64		JB B
3. 2381-21-7	NAPHTHALENE, 1,4-DIMETHYL- PYRENE, 1-METHYL-	9.34		
3. 2301~21-7 4.	•	15.64		1
4. 5.	UNKNOWN	17.13		
5. 6.	UNKNOWN	17.28		J
- ·	UNKNOWN PHTHALATE	19.01		ਹ
7.	UNKNOWN PHTHALATE	19.31	210	J
8.	UNKNOWN PHTHALATE	19.63	300	J
9.	UNKNOWN PHTHALATE	19.68	570	J \
10.	UNKNOWN PHTHALATE	19.77	480	J \
11.	UNKNOWN PHTHALATE	19.82	290	J l
12.	UNKNOWN PHTHALATE	19.90	190	J
13. -207-08-9	BENZO[K] FLUORANTHENE ISCHER	19.95	390	ĭ x .⊤
14.	UNKNOWN	20.95	360	
15.	UNKNOWN	21.35	520	i .
16.	UNKNOWN	21.83	140	
17. 191-26-4	DIBENZO [DEF, MNO] CHRYSENE	21.93	160	-
18. 19. 20.	, , , , , , , , , , , , , , , , , , , ,	21.00	160	, טעו
19.				
20.				
21.				
21.				
24				
u				
26				
27.				
20.				
4).				
30.				-
	FORM I SV-TIC			

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SS-SB01-1

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-9

Sample wt/vol:

30.0 (g/mL) G

decanted: (Y/N) N

Lab File ID:

R2812-9A64

Level: (low/med)

LOW

Date Received: 12/06/02

% Moisture: 5

Date Extracted:12/10/02

Concentrated Extract Volume:

1000 (uL)

Date Analyzed: 12/16/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup:

(Y/N) N

pH:

Number TICs found: 15

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 2. 575-41-7 3. 571-58-4 4. 5. 5737-13-3 6. 243-17-4 7. 8. 198-55-0 9. 10. 11. 12. 13. 14. 15. 16.	COMPOUND NAME	5.66 9.34 9.46	1100	= = = =
17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29.				

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SS-SB01-4

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY

Case No.:

LOW

SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-10

Sample wt/vol:

30.0 (q/mL) G

Lab File ID:

R2812-10A64

Level:

Date Received: 12/06/02

(low/med)

decanted: (Y/N) N

Date Extracted:12/10/02

% Moisture: 20

Concentrated Extract Volume:

1000 (uL)

Date Analyzed: 12/16/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup:

(Y/N) N

pH: ____

Number TICs found: 2

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

2/26/3

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	
1. 2. 3.	UNKNOWN (BC) UNKNOWN	5.66	1200- 180	-JB J
4. 5				
7. 8. 9. 0.				
2				
4				
8 9 0 .				
2.				
5 6.				
7				

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM

Method: 8270C

SS-SB02-0

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-5

Sample wt/vol:

30.0 (g/mL) G

Lab File ID:

R2812-5A64

Level:

(low/med)

Date Received: 12/06/02

% Moisture: 3 decanted: (Y/N) N

Date Extracted:12/10/02

Concentrated Extract Volume:

1000 (uL)

Date Analyzed: 12/16/02

Injection Volume:

1.0 (uL)

LOW

Dilution Factor: 1.0

GPC Cleanup:

(Y/N) N

pH:

Number TICs found: 20

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

1. UNKNOWN (BC) 2. 541-02-6 CYCLOPENTASILOXANE, DECAMETH 3. UNKNOWN PAH 4. UNKNOWN 5. UNKNOWN 6. UNKNOWN 7. UNKNOWN 9. UNKNOWN PHTHALATE 9. UNKNOWN PHTHALATE 10. UNKNOWN PAH 11. 207-08-9 BENZO [K] FLUORANTHENE Sower C 12. UNKNOWN 13. UNKNOWN 14. UNKNOWN 15. UNKNOWN 16. UNKNOWN	5.66 7.45 17.13 17.28	1200 1200 170	JB B
2. 541-02-6 3. UNKNOWN PAH 4. UNKNOWN 5. UNKNOWN 6. UNKNOWN 7. UNKNOWN 8. UNKNOWN PHTHALATE 9. UNKNOWN PHTHALATE 10. UNKNOWN PAH 11. 207-08-9 12. UNKNOWN 13. UNKNOWN 14. UNKNOWN 15. UNKNOWN 16. UNKNOWN 16. UNKNOWN	7.45 17.13	190	
3. UNKNOWN PAH 4. UNKNOWN 5. UNKNOWN 6. UNKNOWN 7. UNKNOWN 8. UNKNOWN PHTHALATE 9. UNKNOWN PHTHALATE 10. UNKNOWN PAH 11. 207-08-9 BENZO [K] FLUORANTHENE I SOME ? 12. UNKNOWN 13. UNKNOWN 14. UNKNOWN 15. UNKNOWN 16. UNKNOWN	17.13		11017
4. UNKNOWN 5. UNKNOWN 6. UNKNOWN 7. UNKNOWN 8. UNKNOWN PHTHALATE 9. UNKNOWN PHTHALATE 10. UNKNOWN PAH 11. 207-08-9 BENZO [K] FLUORANTHENE 1 Sower 7 12. UNKNOWN 13. UNKNOWN 14. UNKNOWN 15. UNKNOWN 16. UNKNOWN		1 / 11	_
5. UNKNOWN 6. UNKNOWN 7. UNKNOWN 8. UNKNOWN PHTHALATE 9. UNKNOWN PAH 11. 207-08-9 BENZO[K] FLUORANTHENE 1 Sower C 12. UNKNOWN 13. UNKNOWN 14. UNKNOWN 15. UNKNOWN 16. UNKNOWN	17.281		
6. UNKNOWN 7. UNKNOWN 8. UNKNOWN PHTHALATE 9. UNKNOWN PHTHALATE 10. UNKNOWN PAH 11. 207-08-9 BENZO[K] FLUORANTHENE 1 Sower 7 12. UNKNOWN 13. UNKNOWN 14. UNKNOWN 15. UNKNOWN 16. UNKNOWN	L L	140	J J
UNKNOWN UNKNOWN PHTHALATE UNKNOWN PHTHALATE UNKNOWN PAH 11. 207-08-9 UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN	19.28 19.43	300	
UNKNOWN PHTHALATE UNKNOWN PHTHALATE UNKNOWN PAH UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN	19.43	330 220	J J
UNKNOWN PAH UNKNOWN PAH UNKNOWN PAH BENZO[K] FLUORANTHENE I SOWCE (UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN	19.63		1 -
UNKNOWN PAH BENZO[K] FLUORANTHENE I SOWCE (UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN	19.76	560	J
BENZO [K] FLUORANTHENE I SOWCE ? UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN	19.90	190	
12. UNKNOWN 13. UNKNOWN 14. UNKNOWN 15. UNKNOWN 16. UNKNOWN	19.97	230	
UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN	20.59	690 170	J
14. UNKNOWN 15. UNKNOWN 16. UNKNOWN	20.96	490	
UNKNOWN UNKNOWN	21.20	160	
16. UNKNOWN	21.30	200	
	21.37	850 850	1 6
17. UNKNOWN PAH	21.83	320	
18. UNKNOWN	21.89	200	
19. UNKNOWN	22.18	160	J
20. 0-00-0 3,4:8,9-DIBENZPYRENE	23.30	180	NJ
21	23.30	100	140 4
22.		·	
23.			
24.			
25.			
26.			
27.		-	
28.			
29.			
30.			

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

R2812-6A64

SS-SB02-1

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-6

Sample wt/vol:

30.0 (g/mL) G

Lab File ID:

Level:

(low/med) LOW

Date Received: 12/06/02

% Moisture: 8

decanted: (Y/N) N

Concentrated Extract Volume:

1000 (uL)

Date Extracted:12/10/02

Date Analyzed: 12/16/02

Injection Volume:

1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup:

(Y/N) N

pH: ____

Number TICs found: 2

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg 3/20/5

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	ς
			1100	===
2- 541-02-6-	UNKNOWN (BC) CYCLOPENTASILOXANE, DECAMETH		1100	JB −
3 - 341=04=0	CICLORED PROTECTION AND DECAMEIN	7.45	170 -	NU
3				
4				
5				İ
6.	_			
7.	_			
8.				
9.				
0.				
⊥.				
2.				
3.			· · · · · · · · · · · · · · · · · · ·	
4				
5				
ć. 				ļ
6				
7.	-			
U .		····		
J.	_			
· .				
1.	-			
2.				
3.	_			
4.				
5				—
6		·		
7				
8		- 		
9	_			
ő: 	- 			
·		l		

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SS-SB02-4

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY

Case No.:

LOW

SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-7

Sample wt/vol:

30.0 (g/mL) G

Lab File ID: R2812-7A64

Level:

(low/med)

Date Received: 12/06/02

% Moisture: 20

decanted: (Y/N) N

Date Extracted:12/10/02

Concentrated Extract Volume:

1000 (uL)

Date Analyzed: 12/16/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup:

(Y/N) N

pH:

Number TICs found: 2

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
		======	=========	=====
1 1.	UNKNOWN (BC)	5.36 5.65	390	JB (2)
2.	UNKNOWN (BC)	5.65	1200	JB ∤
3.				
4.				
5.				
6				
6.				
12.				
13.				
14.				i ——— j
15.				
16.				l ————————————————————————————————————
17				
17.				
1 10.				ll
19.				
20.				
1 41.				
22.				
23.				
24.				
25.				
26.				
27.				
27.				
∠8.				
29.				
30				
				
	FORM I SV-TIC	·		I I

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SS-SB03-0

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-2

Sample wt/vol: 30.0 (q/mL) G

Lab File ID: R2812-2A64

Level: (low/med) LOW

% Moisture: 3 decanted: (Y/N) N

Date Received: 12/06/02 Date Extracted:12/10/02

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 12/16/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

3/262

Number TICs found: 20

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	0
		1		_
1.	UNKNOWN (BC)	5.66	1300	
2. 575-41-7	NAPHTHALENE, 1,3-DIMETHYL-	9.34		
3. 832-69-9	PHENANTHRENE, 1-METHYL-	12.45		
4. 610-48-0	ANTHRACENE, 1-METHYL-	12.77		
5. 84-65-1	9,10-ANTHRACENEDIONE	13.28	290	
6. 5737-13-3	CYCLOPENTA (DEF) PHENANTHRENON			
7.	BENZOFLUORÈNE	15.44	v	
8. 2381-21-7	PYRENE, 1-METHYL-	15.68		
9. 2381-21-7	PYRENE, 1-METHYL-	15.91		
10. 3442-78-2	PYRENE, 2-METHYL-	16.12		1 1
11. 2381-21-7	PYRENE, 1-METHYL-	16.19		
12. 82-05-3	7H-BENZ [DE] ANTHRACEN-7-ONE	16.86		1 1
13.	UNKNOWN PAH	17.15	480	
14. 82-05-3	7H-BENZ [DE] ANTHRACEN-7-ONE	17.32	300	
15. 82-05-3	7H-BENZ [DE] ANTHRACEN-7-ONE	17.91		
16. 3351-32-4	2-METHYLCHRYSENE	18.41	260	1
17. 55759-86-9	BICYCLO[3.2.0] HEPTAN-2-ONE,	18.63		
18. 207-08-9	BENZO[K] FLUORANTHENE ISOMER	19.73	1100	
19. 207-08-9	BENZO [K] FLUORANTHENE ↓	20.00		
20. 205-99-2	BENZ [E] ACEPHENANTHRYLENE	20.21	1500	
21			1500	
22.				
43.				
24. /				
L 45.				
26.				
4 / •				
28.				
49				
30				
	FORM I SV-TIC			

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM

Method: 8270C

SS-SB03-0DL

Lab Code: LIBRTY Case No.: SAS No.:

SDG No.: R2812

Matrix: (soil/water)\ SOIL

Lab Sample ID: R2812-2 Lab File ID:

R2812-2DB64

Sample wt/vol:

ΓØΜ

Level: (low/med)

Date Received: 12/06/02

% Moisture: 3 decanted: (Y/N) N

(30.0 (g/mL) G

Date Extracted: 12/2/0/02

Concentrated Extract Volume:

1000 (uL)

Date Analyzed: 1/2/18/02

Injection Volume:

1.0 (u**Ļ**)

Dilution Factor: 5.0

GPC Cleanup:

(Y/N) N

pH:

Number TICs found: 20

CONCENTRATION /UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 2. 575-41-7 3. 486-25-9 4. 5. 779-02-2 6. 7. 84-65-1	UNKNOWN (BC) NAPHTHALENE, 1,3-DIMETHYL- 9H-FLUOREN-9-ONE UNKNOWN PAH ANTHRACENE, 9-METHYL UNKNOWN PAH 9,10-ANTHRACENEDIONE CYCLOPENTA (DEF) PHENAMTHRENON	9.29 11.17 12.36 12.41 12.61	1900 1500 1600 1800 1900 2900 2600 2400 3100 2200 1900 2400	JBD NJD NJD NJD NJD NJD NJD NJD NJD NJD NJ
/	FORM I SV-TIC			

40

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM

Method: 8270C

SS-SB03-1

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-3

Sample wt/vol:

LOW

Lab File ID:

R2812-3A64

Level:

(low/med)

30.0 (g/mL) G

Date Received: 12/06/02

% Moisture:

5

decanted: (Y/N) N

Date Extracted:12/10/02

Concentrated Extract Volume:

1000 (uL)

Date Analyzed: 12/16/02

Injection Volume:

1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup:

(Y/N) N

pH: ____

Number TICs found: 5

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

shels

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC) UNKNOWN SILOXANE	5.66	1100	JB 9
3. 238-84-6 4. 192-97-2 5. 6.	11H-BENZO [A] FLUORENE	15.66 19.97 21.50	250 150 390 160	NJ NJ
7. 8. 9.				
11.				
14 15.				
16 17 18.				-
20.				
21.				
25. 26.				
27. 28. 29.				
30				

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM

Method: 8270C

SS-SB03-4

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-4

Sample wt/vol:

30.0 (g/mL) G

Lab File ID: R2812-4A64

Level:

(low/med)

LOW

Date Received: 12/06/02

% Moisture: 17

decanted: (Y/N) N

Date Extracted:12/10/02

Concentrated Extract Volume:

1000 (uL)

Date Analyzed: 12/16/02

Injection Volume:

1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup:

(Y/N) N

рН: ____

3/26/3

Number TICs found: 2

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC)	5.66	1200	JB B
- 2. 541-02-6 -	CYCLOPENTASILOXANE, DECAMETH	7.45	170	NJ
3		, , , 13	1-70	110
4.				l i
5				
6				i
7				
8				
9.				
10.				
11.				
12.				
13.				
14.				l
15.				
16		 -		
17.	-			l ——— i
18				ļ
19.				
20.				ļ ——— i
21.				l
22.			•	
23.				
24.				
25				l 1
26				
27				
27. 28.				
20.		·		
29.	-			
30.				

FORM 1 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SS-SB04-0

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-11

Sample wt/vol:

30.0 (g/mL) G

Lab File ID:

R2812-11DA64

LOW

Date Received: 12/06/02

Level: (low/med)

decanted: (Y/N) N

Date Extracted:12/10/02

% Moisture: 9 Concentrated Extract Volume:

1000 (uL)

Date Analyzed: 12/16/02

Injection Volume: 1.0(uL)

Dilution Factor: 3.0

GPC Cleanup:

(Y/N) N

pH: ____

Number TICs found: 20

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
======================================	UNKNOWN (BC)	======		=====
2. 573-98-8	NAPHTHALENE, 1,2-DIMETHYL-	5.63		JB B
3. 486-25-9	9H-FLUOREN-9-ONE	9.33		NJ J
4. 779-02-2	ANTHRACENE, 9-METHYL-	11.22		
5. 832-69-9	PHENANTHRENE, 1-METHYL-	12.44		
6.	UNKNOWN PAH	12.49	·	
7.	PHENYLNAPHTHALENE	12.69		
8. 84-65-1		13.20	-	
9. 7469-40-1		13.25		
10. 5737-13-3	CYCLODENIES (DEE) DURNINGUIDENCE		720	
10. 5/3/-13~3 11.	CYCLOPENTA (DEF) PHENANTHRENON		1600	
11. 12. 2381-21-7	UNKNOWN	14.50	760	1 T
	PYRENE, 1-METHYL-	15.65	1000	
13. 82-05-3	7H-BENZ [DE] ANTHRACEN-7-ONE	16.83	730	
14. 207-08-9	BENZO [K] FLUORANTHENE 1500CC		, , , , , , , , , , , , , , , , , , , ,	X J ∖
15.	UNKNOWN	19.89	1100	J
16. 198-55-0	PERYLENE	19.97	3700	NJ
17.	UNKNOWN	20.95	2500	J
18.	UNKNOWN	21.20	830	J
19.	UNKNOWN	21.37	3900	J
20.	UNKNOWN PAH	21.83	1600	J .
21				`
22.				
23.				
24.				
4D.				
46.				
<i>4 / •</i>		***************************************		
50.				
49.				
30				

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SS-SB04-1

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-12

Sample wt/vol:

30.0 (g/mL) G

Lab File ID:

R2812-12A64

Level:

(low/med)

LOW

Date Received: 12/06/02

% Moisture: 9

decanted: (Y/N) N

Date Extracted:12/10/02

Concentrated Extract Volume:

1000 (uL)

Date Analyzed: 12/16/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup:

(Y/N) N

pH: ____

Number TICs found: 9

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg 3/26/3

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC)	5 64	1100-	JB B
	UNKNOWN SILOXANE	7.43	180	
3. 5737-13-3	CYCLOPENTA (DEF) PHENANTHRENON		160	
4. 243-17-4	11H-BENZO[B] FLUORENE	15.64	190	
5.	UNKNOWN	19.88	170	
6. 207-08-9-	BENZO[K] FLUORANTHENE 154KER	19.95	510	
7.	UNKNOWN	20.95	270	
8.	UNKNOWN	21.35	490	J
9.	UNKNOWN	21.83	170	J ↓
10				
<u> </u> _ _				
14.				
1 +3.				
15.				
16.				
18.				
19.				
20			· · · · · · · · · · · · · · · · · · · 	
44.				
43,			*****	
44.			·	
45.				
1 20.				
41.				
20.				
43.				
30				
l	EODM T ON MIC	l		ll

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SS-SB04-4

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY

Case No.:

LOW

SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-13

Sample wt/vol:

30.0 (g/mL) G

Lab File ID:

R2812-13A64

Level:

(low/med)

Date Extracted:12/10/02

Date Received: 12/06/02

% Moisture: 19

decanted: (Y/N) N

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 12/16/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup:

(Y/N) N

pH: ____

Number TICs found: 20

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg 7/ulz

CAS NUMBER COMPOUND NAME RT EST. CONC. Q 1. 3. 486-25-9 3. 486-25-9 4. 613-12-7 ANTHRACENE, 2-METHYL- 5. 613-12-7 ANTHRACENE, 2-METHYL- 7. 5737-13-3 R 238-84-6 9. 2381-21-7 11. 82-05-3 12. 82-05-3 13. UNKNOWN 12. 82-05-3 13. UNKNOWN 14. UNKNOWN 15. 198-55-0 16. UNKNOWN 19. 20. 20. UNKNOWN 19. 20. 20. UNKNOWN 19. 20. 20. UNKNOWN 19. 20. 20. UNKNOWN 19. 20. 20. UNKNOWN 19. 20. 20. UNKNOWN 19. 20. 20. UNKNOWN 20. 20. 20					
1.	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	
2. 581-40-8 NAPHTHALENE, 2,3-DIMETHYL- 3. 486-25-9 9H-FLUOREN-9-ONE 11.22 310 NJ 4. 613-12-7 ANTHRACENE, 2-METHYL- 5. 613-12-7 ANTHRACENE, 2-METHYL- 6. 84-65-1 9,10-ANTHRACENEDIONE 13.24 430 NJ 7. 5737-13-3 CYCLOPENTA (DEF) PHENANTHRENON 14.09 560 NJ 8. 238-84-6 11H-BENZO [A] FLUORENE 15.64 530 NJ 9. 2381-21-7 PYRENE, 1-METHYL- 10. 3442-78-2 PYRENE, 2-METHYL- 11. 82-05-3 7H-BENZ [DE] ANTHRACEN-7-ONE 16.82 370 NJ 12. 82-05-3 7H-BENZ [DE] ANTHRACEN-7-ONE 17.26 280 NJ 13. UNKNOWN 19.26 390 J 14. UNKNOWN 19.88 360 J 15. 198-55-0 PERYLENE 19.97 1400 NJ 16. UNKNOWN 20.95 670 J 17. UNKNOWN 21.37 1400 J 18. UNKNOWN 21.37 1400 J 19. UNKNOWN 21.37 1400 J 20. UNKNOWN 21.87 1400 J 21. 22. 23. 24. 25. 28. 29. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30	=======================================	=======================================	=======	=======================================	=====
2. 581-40-8 NAPHTHALENE, 2,3-DIMETHYL- 3. 486-25-9 9H-FLUOREN-9-ONE 11.22 310 NJ 4. 613-12-7 ANTHRACENE, 2-METHYL- 5. 613-12-7 ANTHRACENE, 2-METHYL- 6. 84-65-1 9,10-ANTHRACENE, 12.48 380 NJ 7. 5737-13-3 CYCLOPENTA (DEF) PHENANTHRENON 14.09 560 NJ 8. 238-84-6 11H-BENZO [A] FLUORENE 15.64 530 NJ 9. 2381-21-7 PYRENE, 1-METHYL- 10. 3442-78-2 PYRENE, 2-METHYL- 11. 82-05-3 7H-BENZ [DE] ANTHRACEN-7-ONE 16.82 370 NJ 12. 82-05-3 7H-BENZ [DE] ANTHRACEN-7-ONE 17.26 280 NJ 13. UNKNOWN 19.26 390 J 14. UNKNOWN 19.88 360 J 15. 198-55-0 PERYLENE 19.97 1400 NJ 16. UNKNOWN 20.95 670 J 17. UNKNOWN 21.37 1400 J 18. UNKNOWN 21.37 1400 J 19. UNKNOWN 21.37 1400 J 20. UNKNOWN 21.87 430 J 21. 22. 23. 24. 25. 26. 27. 22. 27. 28. 29. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30	1	UNKNOWN (BC)	5.64	1200	JB B
3. 486-25-9 9H-FLUOREN-9-ONE 11.22 310 NJ 390 NJ 5613-12-7 ANTHRACENE, 2-METHYL- 12.48 380 NJ 6. 84-65-1 9,10-ANTHRACENEDIONE 13.24 430 NJ 7. 5737-13-3 (CYCLOPENTA (DEF) PHENANTHRENON 14.09 560 NJ 8. 238-84-6 11H-BENZO [A] FLUORENE 9. 2381-21-7 PYRENE, 1-METHYL- 15.88 360 NJ 11. 82-05-3 7H-BENZ [DE] ANTHRACEN-7-ONE 16.82 370 NJ 12. 82-05-3 7H-BENZ [DE] ANTHRACEN-7-ONE 17.26 280 NJ 14. UNKNOWN 19.26 390 J 14. UNKNOWN 19.8 360 J 15. 198-55-0 PERYLENE 19.97 1400 NJ 16. UNKNOWN 20.95 670 J 17. UNKNOWN 20.95 670 J 17. UNKNOWN 21.37 1400 J 18. UNKNOWN PAH 21.89 590 J 19. 20. UNKNOWN PAH 21.89 590 J 21.87 22. 23. 24. 25. 26. 28. 29. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30	2. 581-40-8	NAPHTHALENE, 2,3-DIMETHYL-			
4. 613-12-7	3. 486-25-9	9H-FLUOREN-9-ONE			
5. 613-12-7 ANTHRACENE, 2-METHYL-	4. 613-12-7	ANTHRACENE, 2-METHYL-			
6. 84-65-1 7. 5737-13-3 8. 238-84-6 9. 2381-21-7 10. 3442-78-2 11. 82-05-3 12. 82-05-3 13. UNKNOWN 14. UNKNOWN 15. 198-55-0 16. UNKNOWN 17. UNKNOWN 18. UNKNOWN 19. UNKNOWN 19. 20. UNKNOWN 19. 20. UNKNOWN 19. 20. UNKNOWN 19. 20. UNKNOWN 19. 20. UNKNOWN 19. 20. UNKNOWN 20. 95 21. 37 22. 23. 24. 25. 26. 27. 28. 29. 30. 29. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30	5. 613-12-7		12.48	l	
7. 5737-13-3 8. 238-84-6 9. 2381-21-7 10. 3442-78-2 11. 82-05-3 12. 82-05-3 13. 13. 14. 15. 198-55-0 17. 17. 18. 18. 18. 19. 19. 19. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	6. 84-65-1				
8. 238-84-6 9. 2381-21-7 9. 2381-21-7 10. 3442-78-2 11. 82-05-3 7H-BENZ [DE] ANTHRACEN-7-ONE 12. 82-05-3 13. UNKNOWN 14. UNKNOWN 15. 198-55-0 16. UNKNOWN 17. UNKNOWN 18. UNKNOWN 18. UNKNOWN 19. 20. 95 17. UNKNOWN 19. 20. 95 17. UNKNOWN 19. 20. 95 17. UNKNOWN 19. 20. 95 17. UNKNOWN 19. 21. 37 1400 J 19. UNKNOWN 20. 95 21. 37 21. 22. 23. 24 25. 26. 29. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30	7. 5737-13-3	CYCLOPENTA (DEF) PHENANTHRENON	14.09		
9. 2381-21-7 10. 3442-78-2 PYRENE, 2-METHYL- 11. 82-05-3 7H-BENZ [DE] ANTHRACEN-7-ONE 12. 82-05-3 7H-BENZ [DE] ANTHRACEN-7-ONE 13. UNKNOWN 19.26 UNKNOWN 19.26 19.88 360 J 17.26 280 NJ 19.26 19.88 360 J 19.26 19.88 360 J 19.26 19.88 360 J 19.26 390 J 14.00 NJ 15. 198-55-0 PERYLENE UNKNOWN 20.95 670 J 17. UNKNOWN 21.37 1400 J 18. UNKNOWN PAH 21.49 21.49 20. 21.87 21. 22. 23. 24. 25. 26. 27. 28. 29. 30.		11H-BENZO [A] FLUORENE	15.64		
10. 3442-78-2 PYRENE, 2-METHYL- 16.10 320 NJ 11.82-05-3 7H-BENZ [DE] ANTHRACEN-7-ONE 17.26 280 NJ 13.		PYRENE, 1-METHYL-	15.88		
11. 82-05-3 12. 82-05-3 13.	10. 3442-78-2	PYRENE, 2-METHYL-	16.10		
The problem of the		7H-BENZ [DE] ANTHRACEN-7-ONE			
13.		7H-BENZ [DE] ANTHRACEN-7-ONE			
14. 15. 198-55-0 PERYLENE 19.97 1400 NJ 16. UNKNOWN 20.95 670 J 17. UNKNOWN PAH 21.37 1400 J 18. UNKNOWN PAH 21.49 590 J 19. UNKNOWN PAH 21.82 610 J 20. UNKNOWN 21.87 430 J 22. 23. 24. 25. 26. 27. 28. 29. 30. 29. 30.		UNKNOWN			
15. 198-55-0 PERYLENE UNKNOWN 20.95 670 J 1400 NJ 17. UNKNOWN 21.37 1400 J 1400		UNKNOWN	19.88		
16. UNKNOWN 20.95 670 J 1400 J 18. UNKNOWN PAH 21.49 590 J J 19. UNKNOWN PAH 21.82 610 J J 21.87 430 J 22.		PERYLENE	19.97		
17. UNKNOWN PAH		UNKNOWN	20.95		
18. UNKNOWN PAH 21.49 590 J J 21.82 610 J J 21.82 610 J J 21.82 21.87 430 J J 22. 21.87 22. 22. 23. 24. 25. 26. 27. 28. 29. 30. 29. 30.	L ·	UNKNOWN	21.37		
19. UNKNOWN PAH 21.82 610 J J 21.87 23. 24. 25. 26. 27. 28. 29. 30. 29. 30.		UNKNOWN PAH	21.49		
20. UNKNOWN 21.87 430 J 4 22. 23. 24. 25. 26. 27. 28. 29. 30.		UNKNOWN PAH	21.82		
22. 23. 24. 25. 26. 27. 28. 29. 30.		UNKNOWN	21.87		
23. 24. 25. 26. 27. 28. 29. 30.	21				
24. 25. 26. 27. 28. 29. 30.					
25. 26. 27. 28. 29. 30.	23				
26. 27. 28. 29. 30.	24				
28. 29. 30.	25				
28. 29. 30.	26.				
29. 30.	41.				
30	40.				
	29.				
FORM T CV. TTC	30				
		EODM T CV TTC			l

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM

Method: 8270C

SS-SB05-0

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-14

Sample wt/vol:

30.0 (q/mL) G

Lab File ID:

R2812-14DB64

Level:

(low/med)

LOW

Date Received: 12/06/02

% Moisture: 6

decanted: (Y/N) N

1000(uL)

Date Extracted:12/10/02

Concentrated Extract Volume:

Date Analyzed: 12/17/02

Injection Volume: 1.0(uL)

Dilution Factor: 3.0

GPC Cleanup:

(Y/N) N

pH: ____

Number TICs found: 20

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg 3/20/3

CAS NUMBER	COMPOUND NAME	RT	EGE CONC	
CAS NOMBER	COMPOUND NAME	RT RT	EST. CONC.	Q
1	UNKNOWN (BC)	5.60	1200	JB. B
2. 581-40-8	NAPHTHALENE, 2,3-DIMETHYL-	9.29		NJ J
3. 486-25-9	9H-FLUOREN-9-ONE	11.17		
4. 84-65-1	9,10-ANTHRACENEDIONE	13.15		
5. 5737-13-3	CYCLOPENTA (DEF) PHENANTHRENON			
6. 238-84-6	11H-BENZO [A] FLUORENE	15.57		
7. 3442-78-2	PYRENE, 2-METHYL-	15.81	1000	
8. 3353-12-6	PYRENE, 4-METHYL-	16.02	940	
9. 82-05-3	7H-BENZ [DE] ANTHRACEN-7-ONE	16.76		
10.	UNKNOWN	17.06		
11. 3351-32-4	2-METHYLCHRYSENE	18.33		,
12.	UNKNOWN PAH	19.83		
13.	BENZOFLUORANTHENE	19.90		
14. 3343-10-0	BENZ[J] ACEANTHRYLENE, 3-METH			
15. 36728-72-0	28-NOR-17.BETA.(H)-HOPANE	20.90	,	
16.	UNKNOWN	21.14	920	J
17.	UNKNOWN	21.31	5300	J
18. 191-26-4	DIBENZO [DEF, MNO] CHRYSENE	21.43	1300	
19.	UNKNOWN	21.82	920	J
20.	UNKNOWN	22.20	1000	J +
21				
1 44.				
1 44.				
1 23.				
26.				
1 41.				
28.				
49.				
30.				
	FORM I SV-TIC			

FORM 1 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SS-SB05-1

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-15

Sample wt/vol:

30.0 (g/mL) G

Lab File ID: R2812-15B64

Level: (low/med) LOW Date Received: 12/06/02

% Moisture: 6 decanted: (Y/N) N

Date Extracted:12/10/02

Concentrated Extract Volume:

1000 (uL)

Date Analyzed: 12/17/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup:

(Y/N) N

pH: ____

Number TICs found: 3

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1	UNKNOWN (BC)	5.32	=======================================	JB.
2. 4	UNKNOWN (BC)	5.61	960	JB (
	UNKNOWN	21.30	330	J
4.		21.50	550	'
5.				l
6			· · ·	
7.		···················		
7				
9.				
0				
· ·				
1.	·····			l
2				
3.———				
4				
J. 1				
6				
<i>1</i> •				
8.				
<i>_</i> .				
•				
⊥. I				
4.				
		·		
		[·		
	· · · · · · · · · · · · · · · · · · ·			
0.				l ——
7		 .		l ——
8		 .		l ——
9:		-		ļ
ō:		.		
~ · ———— -		.		1_

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM

Method: 8270C

SS-SB05-4

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-16

Sample wt/vol:

30.0 (g/mL) G

Lab File ID:

R2812-16B64

Level: (low/med) LOW Date Received: 12/06/02

% Moisture: 19

decanted: (Y/N) N

Date Extracted:12/10/02

Concentrated Extract Volume:

1000 (uL)

Date Analyzed: 12/17/02

Injection Volume: 1.0(uL)

Number TICs found: 8

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: ____

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg 3/26/03

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 2.	UNKNOWN (BC)	5.32	180	JB ()
2.	UNKNOWN (BC)	5.62 7.41	980	
4.	UNKNOWN PAH		180	J
5.	UNKNOWN PAH	19.82	170	
5. 6.	UNKNOWN	19.89	290	ĵ (
7.	UNKNOWN	20.89	300	ĵ
8.	UNKNOWN	21.30	780	J
9.	UNKNOWN	22.12	170	J 4
	-	-		
10.	-	-		
11. 12.	-	 -	· · · · · · · · · · · · · · · · · · ·	
13		 -		
		 .		
14		- -		
		— ——— .		
T V •		-		
- / ·		-		
18.		 -		
19.				
20		— ——— -		
21.		-		
22.		-		
23.	-	<i>-</i> -		
25			— · · · ·	
25.		— ———— -		
20.		— -		
		 -		
28.				
29.	-			
30		SZ=1==1		

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM

Method: 8270C

SSMW10-1

Lab Code: LIBRTY

Case No.:

LOW

SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-1

Sample wt/vol:

30.0 (g/mL) G

Lab File ID: R2812-1A64

Level:

(low/med)

Date Received: 12/04/02

% Moisture: 9

decanted: (Y/N) N

Date Extracted: 12/08/02

Concentrated Extract Volume:

1000(uL)

Date Analyzed: 12/13/02

Injection Volume:

1.0(uL)

Dilution Factor: 1.0

GPC Cleanup:

(Y/N) N

рн: ____

Number TICs found: 3

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 2.	UNKNOWN (BC)	5.37	370 490	Jβ
3. 4. 5.	UNKNOWN	6.92	490 150	J \
6				
8. 9. 10.				
12.				
14				
16.				
18. 19. 20.				
22.				
25.				
26. 27. 28.				
29.				

67

SS-MW11-0

Lab Name: COMPUCHEM Contract: 8081A

O

J

Lab Code: COMPU Case No.: SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-17

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 9 decanted: (Y/N) N Date Received: 12/06/02

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted:12/10/02

Concentrated Extract Volume: 5000(uL) Date Analyzed: 12/19/02

Injection Volume: 2.0(uL)

CAS NO.

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

11104-28-2----Aroclor-1221

11141-16-5-----Aroclor-1232

53469-21-9-----Aroclor-1242

11097-69-1-----Aroclor-1254

11096-82-5-----Aroclor-1260

53494-70-5----Endrin Ketone

5103-74-2----gamma-Chlordane

5103-71-9----alpha-Chlordane

12672-29-6-----Aroclor-1248

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG COMPOUND

309-00-2-----Aldrin 0.91 U 319-84-6-----alpha-BHC 0.91 U 319-85-7-----beta-BHC 3.7 P 319-86-8-----delta-BHC 1.3 58-89-9-----gamma-BHC (Lindane) 0.91 | U 3.6 U 72-55-9-----4,4'-DDE J 3.1 P 50-29-3-----4,4'-DDT 5.5 U 60-57-1------Dieldrin 1.9 U 959-98-8-----Endosulfan I 1.9 U 33213-65-9----Endosulfan I $\overline{\text{I}}$ 3.6 U 1031-07-8----Endosulfan sulfate 3.6 U 72-20-8-----Endrin 3.6 U 7421-93-4-----Endrin Aldehyde
76-44-8------Heptachlor
1024-57-3------Heptachlor Epoxide 0.97 J 0.91 U 0.91 U 72-43-5-----Methoxychlor____ 9.1 U 8001-35-2----Toxaphene 91 U 12674-11-2----Aroclor-1016 71 U

93 U

71 U

49 U

49 U

49 U

71 U

9.1 U

1.9 U

0.91 U

SS-SB01-0 ·Lab Name: COMPUCHEM Contract: 8081A

Lab Code: COMPU Case No.: SAS No.: SDG No.: R2812

Lab Sample ID: R2812-8 Matrix: (soil/water) SOIL

Sample wt/vol: 30.0 (q/mL) GLab File ID:

% Moisture: 1 decanted: (Y/N) N Date Received: 12/06/02

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/10/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/12/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N Sulfur Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

			
309-00-2	Aldrin	0.84	U
319-84-6	alpha-BHC	0.84	-
319-85-7		1.7	1 ~
319-86-8		0.84	, –
	gamma-BHC (Lindane)	0.84	1 -
72-54-8		3.3	1 -
72-55-9		1.7	
50-29-3	4,4'-DDT	5.1	
60-57-1		1.7	
959-98-8	Endosulfan I	$\bar{1}$	
	Endosulfan II	3.3	
1031-07-8	Endosulfan sulfate	3.3	11
72-20-8	Endrin	3.3	
7421-93-4	Endrin Aldehyde	3.3	
76-44-8	Heptachlor	0.84	I .
	Heptachlor Epoxide	0.84	-
72-43-5	Methoxychlor	8.4	
8001-35-2	Toxaphene	84	ı
	Aroclor-1016	66	1 -
	Aroclor-1221	86	
	Aroclor-1232	66	lΰ
	Aroclor-1242	45	1 -
	Aroclor-1248	45	Ü
	Aroclor-1254	45	. –
	Aroclor-1260	66	บั
53494-70-5	Endrin Ketone	4.2	J
5103-74-2	gamma-Chlordane	0.84	-
5103-71-9	alpha-Chlordane	1.7	Ü
		1./	١

SS-SB01-1

Q

Lab Name: COMPUCHEM Contract: 8081A

Lab Code: COMPU Case No.:

SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-9

Sample wt/vol:

30.0 (g/mL) G

Lab File ID:

% Moisture: 5

decanted: (Y/N) N

Date Received: 12/06/02

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted:12/10/02

Concentrated Extract Volume:

5000 (uL)

Date Analyzed: 12/19/02

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: ____

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG

309-00-2Aldrin	11	EK
319-84-6alpha-BHC	0.87	
319-85-7beta-BHC	100	
319-86-8delta-BHC	0.87	
58-89-9gamma-BHC (Lindane)	0.87	
72-54-84,4'-DDD	3.5	
72-55-94,4'-DDE	1.8	
50-29-34,4'-DDT	_ 5.3	Ŭ
60-57-1Dieldrin	_ 1.8	
959-98-8Endosulfan I	- 1.8	บั
33213-65-9Endosulfan II	3.5	ŭ
1031-07-8Endosulfan sulfate	- 6.7	Ŭ \
72-20-8Endrin	- 3.5	U .
7421-93-4Endrin Aldehyde		U D
76-44-8Heptachlor	0.87	
1024-57-3Heptachlor Epoxide	-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
72-43-5Methoxychlor	$- $ $\frac{0.87}{8.7} $	
8001-35-2Toxaphene	-\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	-
12674-11-2Aroclor-1016	- 68	-
11104-28-2Aroclor-1221	- 89	- 1
11141-16-5Aroclor-1232	68	- 1
53469-21-9Aroclor-1242	47	บ้
12672-29-6Aroclor-1248		_ ,
11097-69-1Aroclor-1254		บ
11096-82-5Aroclor-1260	_ 47	_
53494-70-5Endrin Ketone	68	
5103-74-2gamma-Chlordane	_ 4.4 II 11	
5103-71-9alpha-Chlordane		
atpha-chiordane	1.8	U

SS-SB01-1DL Lab Name: COMPUCHEM Contract: 8081A Lab Code: COMPU Case No.: SAS No.: SDG No.: R281/2 Matrix: (soil/water) SOIL Lab Sample ID: R2812-9 Sample wt/vol: (30.0 (g/mL) GLab File ID: % Moisture: 5 decanted: (Y/N) N Date Received: 12/06/02 Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/10/02 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/12/02 Dilution Factor: 2.0 Injection Volume: 2.0 (uL) GPC Cleanup: (Y/N) N pH' Sulfur Cleanup: (Y/N) N CONCENTRATION UNITS: CAS NO. (ug/L for ug/Kg) UG/KG COMPOUND 0 309-00-2-----Aldrin 1.7 U 319-84-6-----alpha-BHC 1.7 0 319-85-7-----beta-BHC 3.6 U 1.7 U $319-86-8------delta-BH\overline{C}$ 58-89-9----gamma-BHC (Lindane) 1.7 U 6.9 U 72-55-9-----4,4'-DDE 3.6 U 50-29-3-----4,4'-DDT 11 U 60-57-1-----Dieldrin 3.6 U 959-98-8-----Endosulfan/I 3.6 U 6.9 Ū 33213-65-9-----Endosulfan/ IT 1031-07-8----Endosulfan sulfate 6.9 U 72-20-8-----Endrin 6.9 U 7421-93-4----Endrin Aldehyde 13 D 76-44-8------Heptachlor 1.7 U 1024-57-3-----Heptachlor Epoxide 1.7 U 72-43-5-----Methøxychlor 17 U 8001-35-2----Toxaphene 170 U 12674-11-2-----Aroclor-1016 140 U 11104-28-2-----Aroclor-1221 180 U 11141-16-5-----Aroclor-1232 140 U 53469-21-9-----Aroclor-1242 95 U 12672-29-6----/Aroclor-1248 .95 U 11097-69-1---/-Aroclor-1254 **∀**95|U 11096-82-5---/--Aroclor-1260 14 Q U 53494-70-5-----Endrin Ketone 9.9\DJP 5103-74-2----gamma-Chlordane 1.7 \ 5103-71-9--/----alpha-Chlordane 3.6 U

FORM I PEST

SS-SB01-4

Lab Name: COMPUCHEM Contract: 8081A

Lab Code: COMPU Case No.: SAS No.:

SAS No.: SDG No.: R2812

Matrix: (soil/water) SOIL Lab Sample ID: R2812-10

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 20 decanted: (Y/N) N Date Received: 12/06/02

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/10/02

Concentrated Extract Volume: 5000(uL) Date Analyzed: 12/12/02

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

CAD NO.	COMPOUND (dg/H of	ug/kg/ og/kg	V.	
309-00-2	Aldrin	1.0	<u></u>	
319-84-6	alpha-BHC	1.0	U	ı
	beta-BHC	2.1	טו	
319-86-8	delta-BHC	1.0	ט	İ
58-89-9	gamma-BHC (Lindane)	1.0		
72-54-8	4,4'-DDD	4.1	lυ	
72-55-9	4,4'-DDE			
	4,4'-DDT	6.3		
	Dieldrin	2.1	טו	1
959-98-8	Endosulfan I	2.1	U	
33213-65-9	Endosulfan II	4.1		
	Endosulfan sulfate	4.1		1
72-20-8		4.1		
7421-93-4	Endrin Aldehyde	0.88		13
	Heptachlor	1.0		-
	Heptachlor Epoxide	1.0		1
72-43-5	Methoxychlor	10		1
	Toxaphene	100		1
	Aroclor-1016			ļ
	Aroclor-1221	110		1
	Aroclor-1232	81		1
53469-21-9	Aroclor-1242	 56		
12672-29-6	Aroclor-1248	56		
	Aroclor-1254	 56		
	Aroclor-1260	81		
	Endrin Ketone	1.1		17
	gamma-Chlordane	1.0		~
	alpha-Chlordane	2.1		1
	<u></u>			
				

3/2/12

EPA SAMPLE NO.

SS-SB02-0

Lab Name: COMPUCHEM Contract: 8081A

Lab Code: COMPU Case No.:

SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-5

Sample wt/vol:

30.0 (g/mL) G

Lab File ID:

% Moisture: 3

decanted: (Y/N) N

Date Received: 12/06/02

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted:12/10/02

Concentrated Extract Volume: 5000(uL)

Date Analyzed: 12/12/02

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: ____

Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

0

	- (ug/ ii or ug/	, 115, 00, 110	×
309-00-2	Aldrin	0.86	IJ
	alpha-BHC	0.86	
319-85-7	beta-BHC	1.8	
319-86-8	delta-BHC	0.86	
58-89-9	gamma-BHC (Lindane)	0.86	
72-54-8	4,4'-DDD	3.4	
72-55-9		1.8	
	4,4'-DDT	2.4	
60-57-1	Dieldrin	1.8	111
959-98-8	Endosulfan I	1.8	
33213-65-9	Endosulfan II	3.4	
1031-07-8	Endosulfan sulfate	3.4	
72-20-8 <i></i> -	Endrin	3.4	
7421-93-4	Endrin Aldehyde	3.4	
76-44-8	Heptachlor	0.86	Ŭ
1024-57-3	Heptachlor Epoxide	0.86	
72-43-5 -	Methoxychlor	8.6	
8001-35 - 2	Toxaphene	86	
12674-11-2	Aroclor-1016	67	
11104-28-2	Aroclor-1221	88	, -
11141-16-5	Aroclor-1232	67	
53469-21 - 9	Aroclor-1242	46	
12672-29-6	Aroclor-1248	46	l .
11097-69-1	Aroclor-1254	46	
11096-82 - 5	Aroclor-1260	67	
53494-70-5	Endrin Ketone	16	
5102 74 2	gamma-Chlordane	0.86	
コエロコー / ほー乙 ーーーー	alpha-Chlordane		

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

Lab Name: COMPUCHEM Contract: 8081A

Lab Code: COMPU Case No.: SAS No.: SDG No.: R2812

Matrix: (soil/water) SOIL Lab Sample ID: R2812-6

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 8 decanted: (Y/N) N Date Received: 12/06/02

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/10/02

Concentrated Extract Volume: 5000(uL) Date Analyzed: 12/12/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

309-00-2Aldrin	0.90	U
319-84-6alpha-BHC	0.90	
319-85-7beta-BHC	1.8	_
319-86-8delta-BHC	0.90	_
58-89-9gamma-BHC (Lindane)	0.39	_
72-54-84,4'-DDD	3.6	
72-55-94,4'-DDE	1.8	Ü
50-29-34,4'-DDT	0.91	J
60-57-1Dieldrin	1.8	-
959-98-8Endosulfan I	1.8	
33213-65-9Endosulfan II	I	
1031-07-8Endosulfan sulfate	3.6	
72-20-8Endrin	3.6	
7421-93-4Endrin Aldehyde	3.6	
76-44-8Heptachlor	0.90	Ŭ
1024-57-3Heptachlor Epoxide	0.90	
72-43-5Methoxychlor	9.0	
8001-35-2Toxaphene	90	U
12674-11-2Aroclor-1016	- 71	Ŭ
11104-28-2Aroclor-1221	92	บั
11141-16-5Aroclor-1232	- 71	Ü
53469-21-9Aroclor-1242	- 49	_
12672-29-6Aroclor-1248	49	_
11097-69-1Aroclor-1254	-1	Ŭ
11096-82-5Aroclor-1260	71	บ็
53494-70-5Endrin Ketone	1.6	-
5103-74-2gamma-Chlordane	0.90	_
5103-71-9alpha-Chlordane	1.8	Ü
alpha chioranic	-	١
	_	ــــــــــــــــــــــــــــــــــــــ

1D GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-SB02-4

Lab Name: COMPUCHEM Contract: 8081A

Lab Code: COMPU

Case No.:

SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-7

Sample wt/vol:

30.0 (g/mL) G

Lab File ID:

% Moisture: 20

decanted: (Y/N) N

Date Received: 12/06/02

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted:12/10/02

Concentrated Extract Volume:

5000 (uL)

Date Analyzed: 12/12/02

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: ____

Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q

309-00-2Aldrin	1.0 U
319-84-6alpha-BHC	1.0 U
319-85-7beta-BHC	2.1 U
319-86-8delta-BHC	1.0 U
58-89-9qamma-BHC (Lindane)	1.0 U
72-54-84, 4'-DDD	4.1 U
72-55-94,4'-DDE	2.1 U
50-29-34, 4'-DDT	6.3 U
60-57-1Dieldrin	2.1 U
959-98-8Endosulfan I	2.1 0
33213-65-9Endosulfan II	2.1 U 4.1 U
1031-07-8Endosulfan sulfate	
72-20-8Endosullan sullate	4.1 U
72-20-8ENGTIN	4.1 U
7421-93-4Endrin Aldehyde	4.1 U
76-44-8Heptachlor	1.0 U
1024-57-3Heptachlor Epoxide	1.0 U
72-43-5Methoxychlor	10 ប
8001-35-2Toxaphene	100 U
12674-11-2Aroclor-1016	81 U
11104-28-2Aroclor-1221	110 U
11141-16-5Aroclor-1232	81 U
53469-21-9Aroclor-1242	56 U
12672-29-6Aroclor-1248	56 U
11097-69-1Aroclor-1254	56 บ
11096-82-5Aroclor-1260	81 U
53494-70-5Endrin Ketone	1.9 JP
5103-74-2gamma-Chlordane	1.0 U
5103-71-9alpha-Chlordane	2.1 U
*	
1	

SS-SB03-0

Lab Name: COMPUCHEM Contract: 8081A

Lab Code: COMPU Case No.: SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL Lab Sample ID: R2812-2

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 3 decanted: (Y/N) N Date Received: 12/06/02

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/10/02

Concentrated Extract Volume: 5000(uL) Date Analyzed: 12/19/02

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

· J,	J. J. ,		-	
309-00-2Aldrin		110	Е	7
319-84-6alpha-BHC		0.86		-
319-85-7beta-BHC		1.8		}
319-86-8delta-BHC		0.86		ľ
58-89-9gamma-BHC (Lindane)		0.86		
72-54-84,4'-DDD		3.4		
72-55-94,4'-DDE		1.8		- 1
50-29-34,4'-DDT		5.2		
60-57-1Dieldrin		1.8		l
959-98-8Endosulfan I		1.8		
33213-65-9Endosulfan II		3.4		
1031-07-8Endosulfan sulfate			EP	J
72-20-8Endrin		3.4	1	ł
7421-93-4Endrin Aldehyde		3.4	U	
76-44-8Heptachlor		0.86	U	ĺ
1024-57-3Heptachlor Epoxide		0.86	U	
72-43-5Methoxychlor		8.6	U	
8001-35-2Toxaphene		86	U	ł
12674-11-2Aroclor-1016		67	U	
11104-28-2Aroclor-1221		88	U	- 1
11141-16-5Aroclor-1232		67	U	-
53469-21-9Aroclor-1242		46	U	Ì
12672-29-6Aroclor-1248		46	U	
11097-69-1Aroclor-1254		46	U	
11096-82-5Aroclor-1260	·····	67		ļ
53494-70-5Endrin Ketone	43	110	EP	02
5103-74-2gamma-Chlordane		0.86		1
5103-71-9alpha-Chlordane		1.8	U	Ì
			l	

3/26/3

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-SB03-0DL Lab Name: COMPUCHEM Contract: 8081A

Lab Code: COMPU Case No.: \ SAS No.: SDG No.: R2812

Matrix: (soil/water) SOIL Lab Sample ID: R2812-2

Sample wt/vol: $30.0 (g/mL) \G$ Lab File ID:

% Moisture: 3 decanted: (Y/N) N Date Received: 12/06/02

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/10/02

Concentrated Extract Volume: 5000(uL) Date Analyzed: 12/12/02

Injection Volume: 2.0(uL) Dilution Factor: 100.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO. COMPOUND (ug/L) or ug/Kg) UG/KG 0 309-00-2-----Aldrin 86 U 319-84-6-----alpha-BHC 86 U 319-85-7-----beta-BHC 180 U 319-86-8-----delta-BHC 86 U 58-89-9-----qamma-BHC (Lindane) 86 U 340 U 72-55-9-----4,4'-DDE 180 U 50-29-3-----4,4'-DDT 520 U 60-57-1-----Dieldrin 180 U 959-98-8-----Endosulfan I 180 U 33213-65-9----Endosulfan IT 340 U 1031-07-8-----Endosulfan sulfate 340 U 72-20-8-----Endrin 340 U 7421-93-4-----Endrin Aldehyde 340 U 76-44-8------Heptachlor 86 U 1024-57-3-----Heptachlor Epoxide 86 U 72-43-5-----Methoxychlor 860 U 8001-35-2----Toxaphene 8600 U 12674-11-2-----Aroclor-1016 6700 U 11104-28-2----Aroclor-1221 8800 L 11141-16-5-----Aroclor-1232 53469-21-9-----Aroclor-1242 12672-29-6-----Aroclor-1248 6\700 U 4800 U 4600 U 11097-69-1-----Aroclor-1254 460% U 11096-82-5----Aroclor-1/260 670**d**|U 53494-70-5----Endrin Ketone 43 DJ 5103-74-2----gamma-Chlordane 86 W 5103-71-9-----alpha-¢hlordane 180 lth

FORM I PEST

3/26/7

CONCENTRATION UNITS:/

SS-SB03-1

Lab Name: COMPUCHEM Contract: 8081A

Lab Code: COMPU Case No.: SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL Lab Sample ID: R2812-3

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 5 decanted: (Y/N) N Date Received: 12/06/02

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/10/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/19/02

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

15 E K	309-00-2Aldrin
0.87 U	319-84-6alpha-BHC
1.8 U	319-85-7beta-BHC
0.87 ប	319-86-8delta-BHC
០.87 ប	58-89-9gamma-BHC (Lindane)
3.5 U	72-54-84,4'-DDD
1.8 ប	72-55-94,4'-DDE
5.3 U	50-29-34,4'-DDT
1.8 U	60-57-1Dieldrin
0.90 JP K	959-98-8Endosulfan I
3.5 U	33213-65-9Endosulfan II
5.7 K	1031-07-8Endosulfan sulfate
3.5 U	72-20-8Endrin
10 3.5 U D	7421-93-4Endrin Aldehyde
0.87 U	76-44-8Heptachlor
0.87 บ	1024-57-3Heptachlor Epoxide
8.7 U	72-43-5Methoxychlor
87 U	8001-35-2Toxaphene
68 U	12674-11-2Aroclor-1016
89 U	11104-28-2Aroclor-1221
68 U	11141-16-5Aroclor-1232
47 U	53469-21-9Aroclor-1242
47 U	12672-29-6Aroclor-1248
47 U	11097-69-1Aroclor-1254
68 U	11096-82-5Aroclor-1260
14 84 14 35	53494-70-5Endrin Ketone
0.87 U	5103-74-2gamma-Chlordane
1.8 U	5103-71-9alpha-Chlordane

EPA SAMPLE NO.

SS-SB03-1DL SDG No.: R2812 Lab Sample ID: R2812-3/

O

Lab Name: COMPUCHEM

Lab Code: COMPU Zase No.: SAS No.:

5000 (uL)

Contract: 8081A

Matrix: (soil/water) SOIL

Sample wt/vol:

30.0 (g/mL) G

Lab File ID:

% Moisture: 5

decanted: (Y/N) N Date Received: 1/2/06/02

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 12/10/02

Concentrated Extract Volume:

Date Analyzed: 12/12/02

Injection Volume: 2.0(uL)

Dilution Factor: 2.0

GPC Cleanup: (Y/N) N

11141-16-5-----Aroclor-1232

53469-21-9-----*\froclor-1242

12672-29-6-----Aroclor-1248 11097-69-1------Aroclor-1254 11096-82-5----------Aroclor-1260

 $5103-74-2--/--gamma-Chlorda\overline{ne}$

5103-71-9--/---alpha-Chlordane

∕--Endrin Ketone

53494-70-5---

pH:

Sulfux Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or/ug/Kg) UG/KG

CAS NO.

COMPOUND

309-00-2-----Aldrin 1.7 U 319-84-6-----alpha-BHC 1.7 U 319-85-7-----beta-BHC 3.6 U 319-86-8------delta-BH \overline{C} 1.7 U 58-89-9-----gamma-BHC (Lindané) 1.7 U 72-54-8-----4,4'-DDD 6.9 U 72-55-9-----4,4'-DDE 3.6 U 50-29-3-----4,4'-DDT 11 U 60-57-1-----Dieldrin 3.6 U 959-98-8-----Endosulfan 3.6 U 33213-65-9----Endosulfan/II 6.9 U 1031-07-8-----Endosulfar sulfate 6.9 U 72-20-8-----Endrin 6.9 U 10 | D 7421-93-4----Endrin Aldehyde 76-44-8------Heptach/or 1.7 U 1024-57-3-----Heptachlor Epoxide 1.7 U 72-43-5-----Methoxychlor 17 U 8001-35-2-----Toxaphene 170 U 12674-11-2----Aroxlor-1016 140 U 11104-28-2----Arøclor-1221 180 U

FORM I PEST

140 U

95 U

95 U 95 U 140 U

8/6|DJ

3.6\U

1.7 U

SS-SB03-4

Contract: 8081A Lab Name: COMPUCHEM

Lab Code: COMPU

Case No.: SAS No.: SDG No.: R2812

Lab Sample ID: R2812-4 Matrix: (soil/water) SOIL

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 17 decanted: (Y/N) N Date Received: 12/06/02

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/10/02

Concentrated Extract Volume: 5000(uL) Date Analyzed: 12/12/02

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG 0

CAS NO.	COMPOUND (8	ig/L OI	ug/kg/	UG/ KG	Q
309-00-2	Aldrin			1.0	11
	alpha-BHC			1.0	
319-85-7	beta-DUC			2.0	
	delta-BHC			1.0	
50-00-0	gamma-BHC (Lindane)			1.0	
72-54-8	4 41 DDD				4 -
72-54-6				4.0	
50-29-3]	2.0	
60-57-1	D: 01 days		i	6.0	
00-2/-1	Endosulfan I		<u> </u>	2.0	
22212 (5.0	Endosulian i			2.0	
33213-65-9	Endosulfan II			4.0	
1031-07-8	Endosulfan sulfate			4.0	
72-20-8				4.0	
7421-93-4	Endrin Aldehyde			4.0	
/6-44-8	Heptachlor			1.0	
1024-57-3	Heptachlor Epoxide		 	1.0	
72-43-5	Methoxychlor			10	
8001-35-2	Toxaphene			100	
12674-11-2	Aroclor-1016			78	
11104-28-2	Aroclor-1221			100	
11141-16-5	Aroclor-1232			78	_
	Aroclor-1242			54	
	Aroclor-1248			54	U
11097-69-1	Aroclor-1254			54	U
11096-82-5	Aroclor-1260			78	U
53494-70-5	Endrin Ketone			1.5	JP
5103-74-2	gamma-Chlordane			1.0	
5103-71-9	alpha-Chlordane			2.0	
				2.0	-

SS-SB04-0

Lab Name: COMPUCHEM Contract: 8081A

Case No.: Lab Code: COMPU SAS No.: SDG No.: R2812

Matrix: (soil/water) SOIL Lab Sample ID: R2812-11

Sample wt/vol: 30.0 (q/mL) GLab File ID:

% Moisture: 9 decanted: (Y/N) N Date Received: 12/06/02

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/10/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/20/02

Injection Volume: 2.0 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

> CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG 0

309-00-2Aldrin 319-84-6alpha-BHC 319-85-7beta-BHC 319-86-8delta-BHC 58-89-9gamma-BHC (Lindane) 72-54-84,4'-DDD 72-55-94,4'-DDE 9.3 U	
319-85-7beta-BHC 9.3 U 319-86-8delta-BHC 4.6 U 58-89-9gamma-BHC (Lindane) 4.6 U 72-54-84,4'-DDD 18 U 72-55-94,4'-DDE 9.3 U	
319-86-8	
58-89-9	
72-54-84,4'-DDD 18 U 9.3 U	
72-54-84,4'-DDD 18 U 9.3 U	
72-55-94,4'-DDE 9.3 U	
7.0	
50-29-34,4'-DDT 27 U	
60-57-1Dieldrin 9.3 U	
959-98-8Endosulfan I 9.3 U	
33213-65-9Endosulfan II 18 U	
1031-07-8Endosulfan sulfate	
72-20-8Endrin 18 U	
7421-93-4Endrin Aldehyde 18 U	
76-44-8	
1024-57-3Heptachlor Epoxide 4.6 U	
72-43-5	
1 4 6 4 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
12672-29-6Aroclor-1248 250 U	
11097-69-1Aroclor-1254 250 U	
11096-82-5Aroclor-1260 360 U	
53494-70-5Endrin Ketone 31 JP	
5103-74-2gamma-Chlordane 4.6 U	
5103-71-9alpha-Chlordane 9.3 U	

SS-SB04-1

Lab Name: COMPUCHEM Contract: 8081A

Lab Code: COMPU Case No.: SAS No.: SDG No.: R2812

Matrix: (soil/water) SOIL Lab Sample ID: R2812-12

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 9 decanted: (Y/N) N Date Received: 12/06/02

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/10/02

Concentrated Extract Volume: 5000(uL) Date Analyzed: 12/12/02

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/kg) UG/kG Q

		5/ Mg/ 00/ M0	V
309-00-2	Aldrin	0.91	II
319-84-6	alpha-BHC	0.91	
319-85-7	beta-BHC	- °1.9	
319-86-8	delta-BHC	0.91	
58-89-9	gamma-BHC (Lindane)		
72-54-8	4,4'-DDD	3.6	
72-55-9	4,4'-DDE	- 1.9	
50-29-3	4,4'-DDT	5.5	
60-57-1	Dieldrin	- 1.9	ij
959-98-8	Endosulfan I	1.9	II
33213-65-9	Endosulfan II	3.6	U
1031-07-8	Endosulfan sulfate	3.6	Ŭ
72-20-8	Endrin	3.6	
7421-93-4	Endrin Aldehyde	3.6	
76-44-8	Heptachlor	1	
1024-57-3	Heptachlor Epoxide	0.91	Ū
72-43-5	Methoxychlor	9.1	Ū
8001-35-2	Toxaphene	— i	Ŭ
12674-11-2	Aroclor-1 016	- 7 <u>1</u>	Ŭ
11104-28-2	Aroclor-1221	93	_
11141-16-5	Aroclor-1232		Ū
53469-21-9	Aroclor-1242	49	Ũ
12672-29-6	Aroclor-1248	_ 49	Ū
11097-69-1	Aroclor-1254	<u> </u>	Ŭ
11096-82-5	Aroclor-1260		Ŭ
53494-70-5	Endrin Ketone	6.9	_
5103-74-2	gamma-Chlordane	I	Ŭ
5103-71-9	alpha-Chlordane	I	Ŭ

SS-SB04-4

SDG No.: R2812

Lab Name: COMPUCHEM Contract: 8081A

Lab Code: COMPU Case No.:

SAS No.:

Matrix: (soil/water) SOIL Lab Sample ID: R2812-13

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 19 decanted: (Y/N) N Date Received: 12/06/02

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/10/02

Concentrated Extract Volume: 5000(uL) Date Analyzed: 12/12/02

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q 309-00-2-----Aldrin 1.0 U 319-84-6-----alpha-BHC 1.0 U 319-85-7----beta-BHC 2.1 U 319-86-8-----delta-BHC 1.0 U 58-89-9-----gamma-BHC (Lindane) 1.0 U 4.1 U 2.1 U 6.2 U 72-55-9-----4,4'-DDE 50-29-3------4,41-DDT 60-57-1-----Dieldrin 7.1 P 959-98-8-----Endosulfan I 2.1 U 33213-65-9----Endosulfan I \overline{I} 4.1 U 1031-07-8-----Endosulfan sulfate 13 72-20-8-----Endrin 4.1 T 7421-93-4----Endrin Aldehyde 4.1 U 76-44-8------Heptachlor 1.0 U 1024-57-3-----Heptachlor Epoxide 1.0 U 72-43-5-----Methoxychlor 10 U 8001-35-2----Toxaphene 100 U 12674-11-2-----Aroclor-1016 80 U 11104-28-2-----Aroclor-1221 100 U 11141-16-5-----Aroclor-1232 80 U 53469-21-9-----Aroclor-1242 56 U 12672-29-6-----Aroclor-1248 56 U 11097-69-1-----Aroclor-1254 56 U 11096-82-5-----Aroclor-1260 80 U 53494-70-5----Endrin Ketone 7.3 J 5103-74-2----gamma-Chlordane 1.0 U 5103-71-9-----alpha-Chlordane 2.1 U

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-SB05-0

Date Received: 12/06/02

Lab Name: COMPUCHEM Contract: 8081A Lab Code: COMPU Case No.: SAS No.: SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-14

Sample wt/vol: 30.0 (g/mL) G Lab File ID: % Moisture: 6 decanted: (Y/N) N

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/10/02

Concentrated Extract Volume: 5000(uL) Date Analyzed: 12/20/02

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

		(45) 5 01 49/19/	00/10	Q
309-00-2	Aldrin		73	
319-84-6	alpha-BHC		4.4	
319-85-7	beta-BHC			
319-86-8	delta-BHC		9.0	
58-89-9	gamma-BHC (Lindane	5)	4.4	
72-54-8	4 4'-DDD	-/	4.4	
72-55-9	4 4'-DDF		18	
50-29-3	4,4'-DDT		9.0	
60-57-1	Dieldrin		27	T .
959-98-8	Endosulfan I		9.0	-
33213-65-9	Endosulfan II		9.0	
1031-07-8	Endosulfan sulfate		18	l U
72-20-8	Endrin		81	
7421-93-4	Endrin Aldehyde		18	1 -
76-44-8	Heptachlor		18	l o
1024-57-3	Heptachlor Epoxide		6.1	
72-43-5	Methoxychlor		4.4	
8001-35-2	Toxaphene		44	-
12674-11-2	Aroclor-1016		440	
11104-28-2	Aroclor-1221		350	
11141-16-5	Aroclor-1232		450	
53469-21-9	Aroclor-1242		350	1 1
12672-29-6	Aroclor-1242		240	
11097-69-1	Aroclor-1254		240	
11096-82-5	Aroclor-1254		240	
53494-70-5	Endrin Ketone		350	υ
5103-74-2	gamma-Chlordane		110	
5103-74-2	gamma-Chlordane alpha-Chlordane		4.4	_
J103-11-9	aipha-chiordane		9.0	U
				Ì

SS-SB05-ODL Lab Name: COMPUCHEM Contract: 8081A Lab Code: COMPU Case No.: SAS No.: SDG No.: X2812 Matrix: (soil/water) SOIL Lab Sample ID: R2812-14 Sample wt/vol: 30.0 (g/mL) G Lab File ID: % Moisture: 6 decanted: (Y/N) N Date Received: 12/06/02 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/10/02 Concentrated Extract Volume \ 5000 (uL) Date Analyzed: 12/12/02 Injection Volume: 2.0 (uL) Dilution Factor: 100.0 GPC Cleanup: (Y/N) N Sulfur Cleanup: (Y/N) N pH\ CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L/or ug/Kg) UG/KG 0 309-00-2-----Aldrin 88 U 319-84-6-----alpha-BHC 88 U 319-85-7-----beta-BHC 180 U 319-86-8-----delta-BHC 88 U 58-89-9-----gamma-BHC (Lindane) 88 U 350 U 72-55-9-----4,4'-DDE 180 U 50-29-3-----4,4'-DDT 530 U 60-57-1-----Dieldrin 180 U 959-98-8-----Endosulfan 180 U 33213-65-9-----Endosulfan/II 1031-07-8-----Endosulfan/sulfate 350 U 110 DJ 72-20-8-----Endrin 350 U 7421-93-4----Endrin Aldehyde 350 U 88 U 88 U 880 U 8001-35-2----Toxaphene 8800 U 12674-11-2----Aroc $\sqrt[7]{or}-1\overline{016}$ 6900 U 11104-28-2----Aroofor-1221 9000 U 11141-16-5-----Aroclor-1232 6900 U 53469-21-9-----Arøclor-1242 ¥800 U 12672-29-6-----Ar/oclor-1248 4800 U 11097-69-1-----Aroclor-1254 48 Q0 U 11096-82-5-----Aroclor-1260 690**0** U 53494-70-5-----/Endrin Ketone 72\DJP 5103-74-2-----gamma-Chlordane 88 180

FORM I PEST

SS-SB05-1

Lab Name: COMPUCHEM Contract: 8081A

Lab Code: COMPU Case No.: SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: R2812-15

Sample wt/vol:

30.0 (g/mL) G

Lab File ID:

% Moisture: 6

decanted: (Y/N) N

Date Received: 12/06/02

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted:12/10/02

Concentrated Extract Volume: 5000(uL)

Date Analyzed: 12/19/02

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG

0

309-00-2Aldrin	0.88	U
319-84-6alpha-BHC	0.74	J
319-85-7beta-BHC	1.8	
319-86-8delta-BHC	0.66	J
58-89-9gamma-BHC (Lindane)	0.88	U
72-54-84,4'-DDD	3.5	1
72-55-94,4'-DDE	1.8	U
50-29-34,4'-DDT	5.3	U
60-57-1Dieldrin	1.8	
959-98-8Endosulfan I	1.8	1
33213-65-9Endosulfan II	3.5	U
1031-07-8Endosulfan sulfate	0.80	J
72-20-8Endrin	3.5	1
7421-93-4Endrin Aldehyde	3.5	U
76-44-8Heptachlor	1.0	
1024-57-3Heptachlor Epoxide	0.88	
72-43-5Methoxychlor	8.8	U
8001-35-2Toxaphene	88	U
12674-11-2Aroclor-1 016	69	
11104-28-2Aroclor-1221	90	U
11141-16-5Aroclor-1232	69	U
53469-21-9Aroclor-1242	48	บ
12672-29-6Aroclor-1248	48	U
11097-69-1Aroclor-1254	48	U
11096-82-5Aroclor-1260	69	ប
53494-70-5Endrin Ketone	4.2	JР
5103-74-2gamma-Chlordane	0.88	U
5103-71-9alpha-Chlordane	1.8	U

T

SS-SB05-4

SDG No.: R2812

Lab Name: COMPUCHEM Contract: 8081A

Lab Code: COMPU Case No.: SAS No.:

Matrix: (soil/water) SOIL Lab Sample ID: R2812-16

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 19 decanted: (Y/N) N Date Received: 12/06/02

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/10/02

Concentrated Extract Volume: 5000(uL) Date Analyzed: 12/19/02

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

		g/ kg/ 00/ kg	Q
309-00-2	- Aldrin	1.0	11
	alpha-BHC	0.53	
319-85-7		- 2.1	
319-86-8	delta-BHC	- 1.0	_
58-89-9	gamma-BHC (Lindane)	1.0	1
72-54-8	4.4'-DDD	$ \begin{bmatrix} 1.0 \\ 4.1 \end{bmatrix}$	-
72-55-9	4,4'-DDE	$\begin{bmatrix} - \end{bmatrix}$ $\begin{bmatrix} \frac{1}{2} & \frac{1}{1} \\ \frac{1}{2} & \frac{1}{1} \end{bmatrix}$	_
50-29-3	4,4'-DDT	$\frac{2}{6.2}$	
60-57-1	Dieldrin	- 2.1	
959-98-8	Endosulfan I	2.1	
33213-65-9	Endosulfan II	$- $ $\frac{2.1}{4.1}$	r
1031-07-8	Endosulfan sulfate	- 4.1	
72-20-8	Endrin	4.1	1
7421-93-4	Endrin Aldehyde	- 4.1	. –
76-44-8	Heptachlor	- 1.0	
1024-57-3	Heptachlor Epoxide	1.0	
72-43-5	Methoxychlor	- 10	
8001-35-2	Toxaphene	100	_
12674-11-2	Aroclor-1016	- 80	
11104-28-2	Aroclor-1221	100	_
11141-16-5	Aroclor-1232	- 80	_
53469-21-9	Aroclor-1242	56	
12672-29-6	Aroclor-1248	- 56	
11097-69-1	Aroclor-1254	- 56 56	
11096-82-5	Aroclor-1260	- 80	
53494-70-5	Endrin Ketone	7.1	
[10] [14]	gamma-Chlordane	$ \begin{vmatrix} 1 & 1 \\ 1 & 0 \end{vmatrix}$	
5103-74-2			

EPA SAMPLE NO.

SSMW10-1

Lab Name: COMPUCHEM Contract: 8081A

Lab Code: COMPU Case No.: SAS No.: SDG No.: R2812

Matrix: (soil/water) SOIL Lab Sample ID: R2812-1

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 9 decanted: (Y/N) N Date Received: 12/04/02

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/08/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/14/02

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

309-00-2	Aldrin	0.91	11
319-84-6	alpha-BHC	0.91	1
319-85-7	beta-BHC	2.4	-
319-86-8	delta-BHC	0.91	
58-89-9	gamma-BHC (Lindane)	0.91	
72-54-8	4 4'-DDD	- 3.6	_
72-55-9		- 1.9	
50-29-3		5.5	
60-57-1		- 1.9	
959-98-8	Endosulfan I	1.9	1
33213-65-9	Endosulfan II	3.6	1
1031-07-8	Endosulfan sulfate	-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1 -
72-20-8	Fndrin	3.6	
7421 = 93 - 4	Endrin Aldehyde	3.6	
76-44-8	Heptachlor	- 0.91	
1024-57-3	Heptachlor Epoxide	0.91	1 -
72-43-5	Methoxychlor	9.1	
8001-35-2	Toyanhene	- 91 91	
12674-11 - 2	Aroclor-1016	- 71 71	_
11104-28-2	Aroclor-1221	- 93	_
	Aroclor-1232	-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
	Aroclor-1242	- 49	_
	Aroclor-1248	-	_
11097-69-1	Aroclor-1254	- 49	-
11096-82-5	Aroclor-1260	1	1
53494-70-5	Endrin Ketone	71	1
5103~74-2	gamma-Chlordane	9.1	
5103-74-2	alpha-Chlordane	0.91	l l
JIO3-11-3	aipha-chiordane	_ 1.9	ĮU

										_		EPA SAMPLE NO.
												CMW055
Lab Name:		UCHEM		,	Cor	ntrac				<u>L</u>		
Lab Code:	LIBR	TY	Case I	No.:		SAS	No.:	······································		SDG No	o.:	R2812
Matrix (soi	il/wate	er):	SOIL				Lab San	mple ID	:	R2812	-18	· · · · · · · · · · · · · · · · · · ·
Level (low/	/med):]	TOM.				Date Re	eceived:	:	12/12	/02	
% Solids:	79.5											
			Concent	tration	Units (ug/	/L or	mg/kg di	r y we igh	1 t):		MG/	KG
			CAS No.		Analyte		Concentra	etion	С	Q	м	
		[7439~89~	6 3	Iron			392			P	Ì
en Personal												
en Series												
Color Bef	ore:	BROW	N	Clari	ity Before:	:			Te	xture:	(COARSE
Color Aft	er:	YELL	OW	Clari	ity After:	-			Ar	tifact	s: .	
Comments:												
			·									

			INORGANIC AI	VALIBES DATA SHE	C I		EPA SAMPLE NO.
Lab Name:	COMPUC	THEM	Cont	ract.			GMW0 6
Lab Code:	LIBRE			AS No.:	\$DC	No.:	p2010
			J.: 5			NO.;	R2812
Matrix (so:	il/water): <u>soil</u>		Lab Sample ID:	R28	12-20	
Level (low,	/med):	TOM		Date Received:	12/	12/02	
% Solids:	80.4						
							•
		Concenti	ration Units (ug/L	or mg/kg dry weigh	it):	MG/	KG
		CAS No.	Analyte	Concentration	C Q	м	
		7439-89-6	Iron	814		P	!
		<u> </u>		<u> </u>	<u>'-</u>		<u>!</u>
Color Bei	fore: I	BROWN	Clarity Before:		Textur	e: (COARSE

Color After: YELLOW Clarity After:

Comments:

_____Artifacts:

EPA SAMPLE NO.

_ab Name:	COMPUCHE	M	Contr	ract:				CMW09
Lab Code:	LIBRTY	Case No.:	s	AS No.:		DG No	.:	R2812
Matrix (soi	.1/water):	SOIL		Lab Sample ID:	Ē	2812-	-19	
Level (low/	med):	LOW		Date Received:	1	2/12/	' 02	
% Solids:	80.5							
		Concentrati	ion Units (ug/L	or mg/kg dry weight	:) :		MG/K	G
		CAS No.	Analyte	Concentration	С	Q	М	
		7439-89-6	Iron	596			P	ı

Color Before: GRAY Clarity Before: COARSE Texture: Color After: YELLOW Clarity After: Artifacts: Comments:

EPA SAMPLE NO.

ub Name: C	OMPUCHE	EM	Contra	act:		[SSMW	10-1
_	IBRTY	Case No.	.:SA	S No.:		SDG No	o.:	R2812	
trix (soil/	water):	SOIL		Lab Sample ID:		R2812	-1		
vel (low/me		LOW	 	Date Received:		12/04			_
AGI (IOM)We	α, .	TOM		Date Mecelved.		12/04	/ 02		_
Solids: 9	0.6	- Concentra	ation Units (ug/L o	or mg/kg dry weigh	t):		MG/	KG	
		CAS No.	Analyte	Concentration	С	Q	м		
		7429-90-5	Aluminum	1140			P	<u> </u>	
		7440-36-0	Antimony		В		P	Ī	
		7440-38-2	Arsenic	1.2	l		P	ĪŁ	
		7440-39-3	Barium	4.3		1	P	<u> </u>	
		7440-41-7	Beryllium	0.04	В		P	İВ	
		7440-43-9	Cadmium	0.04	U	1	P	ī~	
		7440-70-2	Calcium	269	1	1	P	Ī	
		7440-47-3	Chromium	4.4		1	P	Ī	
		7440-48-4	Cobalt	0.54	В		P	Ī	
		7440-50-8	Copper	0.39	В	Ī	P	ĪL	
		7439-89-6	Iron	1510		Ī	P	Ī .	
		7439-92-1	Lead	2.6		N*	P	ĪK	
		7439-95-4	Magnesium	91.7	В	E	P	ŹΪ	
		7439-96-5	Manganese	4.6	<u> </u>]	₽	Ī	
		7439-97-6	Mercury	0.018	U		CV	1	
		7440-02-0	Nickel	0.76	1		P	ĪK	
		7440-09-7	Potassium	157		1	P	Īß	
		7782-49-2	Selenium	0.36	Մ		P	Ī	
		7440-22-4	Silver	0.08	U		P	Ī	
		7440-23-5	Sodium	57.2	В	1	P] L	11
		7440-28-0	Thallium	0.56	שן	И	P	Jul	3/22/12
		7440-62-2	Vanadium	3.6			P]	3 ~
		7440-66-6	Zinc	5.4		1	P	Ī	

-1-

Matrix (soil/water):		Contr.	act: Lab Sample ID: Date Received:		SDG No R2812 12/06	-17	SS-MW11-0 R2812	
Lab Code: LIBRTY Matrix (soil/water): Level (low/med): LC	SOIL	<u> </u>	Lab Sample ID:		R2812	-17	R2812	
Matrix (soil/water): Level (low/med): LC	SOIL	.:SA	Lab Sample ID:		R2812	-17	R2812	
Level (low/med): LC	W	<u> </u>						
			Date Received:					
								
* Solids: 91.3	Concentra							
<u></u>	Concentra							
Γ-	0011001101	tion Units (ug/L o	or mg/kg dry weigh	it):		MG/	KG	
1								
	CAS No.	Analyte	Concentration	С	Ω	м		
\\	429-90-5	Aluminum	739	╂	 	l P	<u>!</u> 	
<u></u>	440-36-0	Antimony	2.1	i	i	P	i	
<u>-</u>	440-38-2	Arsenic	0.56	B	 	P	<u> </u>	
	440-39-3	Barium	11.6	<u> </u>	<u>:</u> 1	l P	<u>'</u>	
<u> </u>	440-41-7	Beryllium	<u> </u>	В	i	P	İβ	
17	440-43-9	Cadmium	0.04	<u>י</u>	İ	P	i	
7	440-70-2	Calcium	110	İ	İ	P	j	
<u> </u>	440-47-3	Chromium	6.0	İ	<u></u>	P	j	
<u> </u>	440-48-4	Cobalt	0.48	В	Ī	P	Ī	
7	440-50-8	Copper	14.4	Ì	İ	P	j ,	
7	439-89-6	Iron	1900	Ĭ	1	P	1 3/22/	5
A 7	439-92-1	Lead	33.9		N*	P	1K 3/1	1
· 7	439-95-4	Magnesium	84.3	B	E	P	i f	
7	439-96-5	Manganese	8.0			P	Ī	
7	439-97-6	Mercury	0.016	U		ÇV	1	
7	440-02-0	Nickel	0.66	1		P	Ī	
. 7	440-09-7	Potassium	111		1	P	1B	
<u> </u>	782-49-2	Selenium	0.37	В		P	Ī Y	
[7	440-22-4	Silver	0.07	U		P	Ī	
[7	440-23-5	Sodium	<u> </u>	В	1	P	ĪL	
[7	440-28-0	Thallium	0.54	ט	N	P	IUL	
<u></u>	440-62-2	Vanadium	2.9		1	P	<u>[</u>	
<u> </u>	440-66-6	Zinc	66.3	<u> </u>	1	P		

EPA SAMPLE NO.

	PUCHEM	Contr	ract:				SS-SB	01-0
Code: LIBI		No.: S2	AS No.:		SDG N	o.:	R2812	
rix (soil/wat	er): SOIL		Lab Sample ID:		R2812	2-8		
el (low/med):	LOW		Date Received:		12/06			_
si (iow/med).	<u> </u>		Date Nacerved.		12/00	37 UZ		-
olids: 98.	·····	cration Units (ug/L	or mg/kg dry weigh	t):		MG/	KG	
	CAS No.	Analyte	Concentration	С	Q	м		
	7429-90-	5 Aluminum	424	 	 	P	-	
	7440-36-0	0 Antimony	0.46	В	1	P	Ī	
	7440-38-2			<u>י</u>	Ī	P	Ī	
	7440-39-3	3 Barium	1.6	Π	ĺ	P	<u> </u>	
	7440-41-	7 Beryllium	0.01	В	Ī	P	j B	
	7440-43-	9 Cadmium	0.04	Įυ	Ì	P	j ,	
	7440-70-2	2 Calcium	44.0	В	Ī	P	Ī	
	7440-47-	3 Chromium	1.0	Ī	1	P	Ī	
	7440-48-4	4 Cobalt	0.17	В	<u>i</u>	P	Ī	
	7440-50-6	B Copper	0.14	U	1	P	Jul	
	7439-89-6	6 Iron	760		I	P	Ī	3/2×l
	7439-92-	l Lead	0.84	Ī	N*	P	ĪK	312
	7439-95-4	4 Magnesium	55.5	B	E	P	TI	
	7439-96-	5 Manganese	6.3		1	P	Ī	
	7439-97-0	6 Mercury	0.016	U	1	cv	Ī	
	7440-02-0	Nickel	0.13	В		P	Ī	
	7440-09-	7 Potassium	64.9	В		P	ĪB	
	7782-49-2	2 Selenium	0.32	U	1	P	Ī	
	7440-22-4	4 Silver	0.07	Մ	1	P	Ī	
	7440-23-5	5 Sodium	44.5	В		P	ĪL	
	7440-28-0	O Thallium	0.50	ַט	N	P	JUL	
	7440-62-2	2 Vanadium	· · · · · · · · · · · · · · · · · · ·	В	<u> </u>	P]	
	7440-66-6	6 Zinc	1.8	В	1	P	1	

15

						r -		EPA ŞAMPI	LE NO.
⊥ab Name:	COMPUCHE	EM	Conta	act.				SS-SB0	1-1
Lab Code:	LIBRTY	Case No.:		AS No.:		SDG No	o.:	R2812	
Matrix (soi)	l/water):	SOIL		Lab Sample ID:		R2812	-9		
Level (low/m	med):	LOW	- · · · · · · · · · · · · · · · · · · ·	Date Received:		12/06			
	, .	2011		24.0 1.0002764.		12/00	702		
% Solids:	94.7	_							
		Concentrat	ion Units (ug/L	or mg/kg dry weigh	t):		MG/	KG .	
		CAS No.	Analyte	Concentration	c	Q	м]	
		7429-90-5	Aluminum	313	 -		P	i	
		7440-36-0	Antimony		ับ	i	P	i	
		7440-38-2	Arsenic		В	Ì	P	i	
		7440-39-3	Barium	2.0	Ī	i	P	j	
		7440-41-7	Beryllium	0.02	В	Ī	P	İВ	
		7440-43-9	Cadmium	0.04	U		P	Ī	
		7440-70-2	Calcium	67.1	В	1	P	Ī	
		7440-47-3	Chromium	2.2	Ï	1	P	Ī	
		7440-48-4	Cobalt	0.21	B	T	P	Ī	
		7440-50-8	Copper	0.15	U		P	Tul	1.
:.		7439-89-6	Iron	1030	1	1	P		3/226.3
		7439-92-1	Lead	0.85	1	N*	P	ĪK	" ~
		7439-95-4	Magnesium	81.2	В	E	P	15	
		7439-96-5	Manganese	8.0	1		P	Ī	
		7439-97-6	Mercury	0.015	U		CV	Ī	
		7440-02-0	Nickel	0.16	В	1	P	Ī,	
		7440-09-7	Potassium	94.4	В	1	P	ĪB	
		7782-49-2	Selenium	0.35	U		P	Ī	
		7440-22-4	Silver	0.07	ט		P	Ī	
		7440-23-5	Sodium	49.7	В		P	İL	
		7440-28-0	Thallium	0.53	U	N	P	İuc	
		7440-62-2	Vanadium	1.6	В	ľ	P	j	
		7440-66-6	Zinc	2.6		1	P	Ì	
Color Befo	ore: BRO	7440-28-0 7440-62-2 7440-66-6	Thallium Vanadium	0.53	B	1	P P	IL UL 	
	====		rarrel perore:		Te	exture:		COARSE	
Color Afte	r: YEL	LOW C1	larity After:		Aı	tifact	ß; _		
Comments:									

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

Lab Name: COMPU Lab Code: LIBRT			et:		<u>_</u>		
		: SA	S No.:		SDG No	o.:	R2812
Matrix (soil/water	:): SOIL		Lab Sample ID:		R2812	-10	
Level (low/med):	LOW		Date Received:		12/06		
TAAGT (TOM\MAG):	TON		1/4/4TA4();		12/00	102	
% Solids: 80.5							
	Concentra	tion Units (ug/L c	or mg/kg dry weigh	t):		MG/I	KG
	CAS No.	Analyte	Concentration	С	Q	м	
	7429-90-5	Aluminum	135	1		P]
	7440-36-0	Antimony	0.45	שׁן		P	
	7440-38-2	Arsenic	0.30	שן		P	•
	7440-39-3	Barium	1.0	В		P]
	7440-41-7	Beryllium	0.01	ט		P	
	7440-43-9	Cadmium	0.05	ע	1	P	
	7440-70-2	Calcium	25.0	В	1	P	1
	7440-47-3	Chromium	1.6	1	1	P	Ī
	7440-48-4	Cobalt	0.07	ט	Ī	P	Ī
	7440-50-8	Copper	0.17	U	1	P	Īul
	7439-89-6	Iron	335	1	1	P	1
	7439-92-1	Lead	0.50	T	N*	P	ĪK īB
	7439-95-4	Magnesium	20.8	В	E	P	ĪB
	7439-96-5	Manganese	2.5	1	1	P	
	7439-97-6	Mercury	0.020	U		CV	Ī
	7440-02-0	Nickel	0.14	В	1	P	1
	7440-09-7	Potassium	39.7	В		P	Īβ ,
	7782-49-2	Selenium	0.40	U	Ī	P	3/24/2
	7440-22-4	Silver	0.08	ľ		P	Ī 31 2
	7440-23-5	Sodium	61.7	В		P	ĪL
	7440-28-0	Thallium	0.62	U	N	P	luc
	7440-62-2	Vanadium	0.76	B		P	1
	7440-66-6	Zinc	1.6	B		P	
Color Before:	GRAY	Clarity Before:	<u></u>	T	exture:		COARSE
Color After:	YELLOW	Clarity After:		A	rtifact	:s:	
Comments:					·		

								EPA SAN	APLE NO.
Lab Name:	COMPUCHE	м	Contra	act:				SS-S	B02-0
Lab Code:	LIBRTY	Case No.		.S No.:		SDG N	io.:	R2812	
Matrix (soi	1/water):	SOIL	<u> </u>	Lab Sample ID:		R2812	2-5		
Level (low/				_					_
Level (IOW)	mea).	LOW		Date Received:	•	12/0	6/02		
% Solids:	97.0	-							
		Concentra	tion Units (ug/L c	or mg/kg dry weigh	it) :		MG/	KG_	
		CAS No.	Analyte	Concentration	С	Q	м		
		7429-90-5	Aluminum	1970	Ħ		P	i	
		7440-36-0	Antimony	0.35	B]	P	Ī	
198		7440-38-2	Arsenic	0.35	В	T	P	ĪL.	
		7440-39-3	Barium	5.1	1		P	Ī	
		7440-41-7	Beryllium	0.04	В		P	iΒ	
		7440-43-9	Cadmium	0.04	שן		, P	Ī	
		7440-70-2	Calcium	61.2	В	Ī	P	Ī	
		7440-47-3	Chromium	3.0	ļ		P	Ī	
		7440-48-4	Cobalt	0.35	В		P	1	
		7440-50-8	Copper	0.38	В		P	ĪL.	
		7439-89-6	Iron	2650		}	P	1	
da.		7439-92-1	Lead	2.7		N*	P	IK	
		7439-95-4	Magnesium	114	<u> </u>	E	P	17	
		7439-96-5	Manganese	11.0	<u> </u>	<u> </u>	P	<u> </u>	
		7439-97-6	Mercury	0.017	שן	1	CV		
		7440-02-0	Nickel	0.84	<u> </u>		P	1 K	
		7440-09-7	Potassium	161	<u> </u>	<u> </u>	P	16	
		7782-49-2	Selenium		ΙŪ	<u> </u>	P	<u> </u>	
		7440-22-4	Silver		ļσ	<u> </u>	P		
		7440-23-5	Sodium	<u> </u>	B	<u> </u>	P	[_	
		7440-28-0	Thallium	0.49	ַ	N	P	UL	
		7440-62-2	Vanadium	5.3	<u> </u>	<u> </u>	P		1.
	ļ	7440-66-6	Zinc	4.1		<u> </u>	P		3/22/13
Color Befo	ore: BRO	V N	Clarity Before:		Τ¢	exture:	. (COARSE	•
	<u></u>		-		-		•		
Color Afte	er: YELI	LOW	Clarity After:		Ą	tifact	ts:		
Comments:									

ab Code: LIB	DIVOLUNA						EPA SAM	
ab Code: LIB							SS-SI	302-1
	PUCHEM	Contr	act:					
	RTY Case No	o.: 81	AS No.:		SDG No	SDG No.: R2812		
trix (soil/wa	ter): SOIL		Lab Sample ID:		R2812	-6		_
evel (low/med)	LOW		Date Received:			/02		
0-144-								_
Solids: 92.								
	Concenti	ration Units (ug/L	or mg/kg dry weigh	t):		MG/I	KG_	
	CAS No.	Analyte	Concentration	c	Q	м]	
•	7400 00 E	31	205	<u> </u>		1	 	
	7429-90-5		225	I _P	<u> </u>	P	1	
	7440-36-0			B	<u> </u>	l P	1	
	7440-38-2		0.27	 	<u> </u>	P	inc	
	7440-39-3		0.02	 B	<u> </u>	P	iB	
	7440-41-7			<u> </u> U	<u> </u>	P	リレ	
	7440-43-9	<u></u>		B	<u> </u>	P P	!	
	7440-47-3		1.4	1-	! 	l P	<u>!</u>	
	7440-48-4		0.17	B	<u> </u>	P	1	
	7440-50-8	·	0.15	U	<u> </u> 	 	lα∟	
	7439-89-6		769	╁		P	1 ~ ~	
	7439-92-1	<u>_</u>	1.1	╁	N*	P	İ٧	
	7439-95-4			<u>. </u>	E	P	IK IT	
	7439-96-5		5.5	1		P	1 3	
	7439-97-6	Mercury		Ū		CV	<u>:</u> i	
	7440-02-0		!	B	<u></u>	P	İK	
	7440-09-7	· · · · · · · · · · · · · · · · · · ·	'-	B		P	is.	
	7782-49-2	Selenium	<u> </u>	U	<u>. </u>	P	, ,_ 	
	7440-22-4	Silver		U		P	i	
	7440-23-5	· - !		В			أر	
	7440-28-0	Thallium	_ 	ט	N		iūL	
	7440-62-2	Vanadium	-:	В		P	Ī	
	7440-66-6	Zinc	5.3			P	Ī	ريماريم
							-	3/2~~ン

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO

⊥ab Name: COMPU	CHEM	Contra	int -				ss-s	B02-4
Lab Code: LIBRT			 S No.:		SDG No	· ·	R2812	
Matrix (soil/water							1012	
Level (low/med):			Lab Sample ID:		R2812		.	<u> </u>
rever (TOM/med):	LOW		Date Received:	:	12/06	/02		
% Solids: 80.0	<u></u>							
	Concentrat	ion Units (ug/L o	r mg/kg dry weigh	ıt):		MG/	KG	
	CAS No.	Analyte	Concentration	С	Q	м		
	7429-90-5	Aluminum	142	t	1	P	i	
	7440-36-0	Antimony	0.45	U	i i	P	i	
	7440-38-2	Arsenic	0.30	U	İ	P	iuL	
	7440-39-3	Barium	1.3	Ī	Ī	P	1	•
	7440-41-7	Beryllium	0.01	U	1	P	Ī	
	7440-43-9	Cadmium	0.05	ע	1	P	Ī	
	7440-70-2	Calcium	64.7	В		P	Ī	
	7440-47-3	Chromium	1.4	I	1	P	Ī	
	7440-48-4	Cobalt	0.07	U		P	Ī	
	7440-50-8	Copper	0.17	U	<u> </u>	P	<u>iu</u> L	
	7439-89-6	Iron	395			P	Ī,	
er i e Ne	7439-92-1	Lead	0.66		N*	P	ĪĶ	
1. 1	7439-95-4	Magnesium	22.1	В	E	P	įγS	
	7439-96-5	Manganese	1.9			P	Ì	
	7439-97-6	Mercury	0.019	U		cv	}	
	7440-02-0	Nickel	0.12	ט		P		
	7440-09-7	Potassium	62.7	В		P	13	
	7782-49-2	Selenium	 	Ū	<u> </u>	P	ĺ	
	7440-22-4	Silver	0.08	ln	<u> </u>	P	1	
	7440-23-5	Sodium		B	<u> </u>	P	<u>i</u> L	12
	7440-28-0	Thallium	0.62	U	N	P	luC	3/26/3
	7440-62-2	Vanadium		В	<u> </u>	P	<u> </u>	31
	7440-66-6	Zinc	15.8	<u> </u>	 	P	<u> </u>	
Color Before: (GRAY C.	larity Before:		_			20122	
-0101 Delote.	C.	rerrch peroie:		Te	xture:		COARSE	
Color After:	YELLOW C	larity After:		Ar	tifact	s :_		
Comments:							· · · · ·	

						,-		EPA SAM	PLE NO.
Lab Name:	COMPUCE	HEM	Contra	act:				ss-si	903-0
Lab Code:	LIBRTY	Case No.		S No.:		SDG N	0.:	R2812	
Matrix (soi	1/water)	: SOIL	·	Lab Sample ID:		R2812	2-2		_
Level (low/	med):	LOW		Date Received:		12/06	/02		
% Solids:	97.2	 Concentra	tion Units (ug/L o	or mg/kg dry weigh	i t) :		MG/	KG_	
		CAS No.	Analyte	Concentration	С	Ω	м]	
		7429-90-5	Aluminum	1760		1	P	<u>'</u>	
		7440-36-0	Antimony	<u> </u>	В	<u>i </u>	P	i	
		7440-38-2	Arsenic	:	В	i –	P	1 [
		7440-39-3	Barium	4.6	i	i	P	j 🗀	
		7440-41-7	Beryllium	0.04	В	İ	P	İB	
		7440-43-9	Cadmium	0.04	Ū	1	P	<u> </u>	
		7440-70-2	Calcium	92.9	В	i .	P	Ĭ	
		7440-47-3	Chromium	3.1	Ī	Ī	P	İ	
		7440-48-4	Cobalt	0.30	В		P	Ī	
		7440-50-8	Copper	0.13	Ū		P	iuc	
		7439-89-6	Iron	2640			P	Ī	
		7439-92-1	Lead	2.6	Ī	N*	P	İK	
		7439-95-4	Magnesium	129	ı	E	P	15	
		7439-96-5	Manganese	13.4	Ī	1	P	ĺ	
		7439-97-6	Mercury	0.015	U	1	CV	Ī	
		7440-02-0	Nickel	0.69		1	P	İK	
		7440-09-7	Potassium	173	1	1	P	ĪK.	
		7782-49-2	Selenium	0.42	В		P	ايراً	
		7440-22-4	Silver	0.07	Ū	1	P	Ī	
		7440-23-5	Sodium	50.3	В		P	ĪL	
		7440-28-0	Thallium	0.49	שׁ	N	P	luc	13
		7440-62-2	Vanadium	5.0		<u> </u>	P		3/22/13
		7440-66-6	Zinc	3.9	1	1	Į P	1	~ ~
Color Bef	fore: BI	ROWN	Clarity Before:	<u> </u>	Te	exture:	•	! COARSE	
Color Aft		ELLOW	Clarity After:			rtifact			
Comments:									

EPA SAMPLE NO.

Concentration Units (ug/L or mg/kg dry weight): MG/KG CA3 No. Analyte Concentration C Q M	_ab Name: (COMPUCH	EM	Contra	ct:				SS-SB03-1
Low Low Low Date Received: 12/06/02	Lab Code:]	LIBRTY	Case No	.: SA	No.:		SDG N	o.:	R2812
Low Low Date Received: 12/06/02	Matrix (soil/	/water):	SOIL		Lab Sample ID:	:	R2812	2-3	
Concentration Units (ug/L or mg/kg dry weight): MG/KG CA3 No. Analyte Concentration C Q M 7429-90-5 Aluminum 216 P 7440-36-0 Antimony 0.44 B P 7440-38-2 Arsenic 0.41 B P 7440-39-3 Barium 1.4 P 7440-41-7 Beryllium 0.02 B P 7440-41-7 Beryllium 0.04 U P 7440-47-3 Chromium 2.0.5 B P 7440-47-3 Chromium 2.0 P 7440-48-4 Cobalt 0.22 B P 7440-50-8 Copper 0.14 U P 7439-98-6 Iron 910 P 7439-95-1 Lead 0.86 N* P 7439-95-6 Mangnesium 36.0 B P 7439-97-6 Mercury 0.015 U CV 7440-02-0 Nackel 0.35 B P 7440-02-0 Nackel 0.35 B P 7782-49-2 Selenium 0.32 U P 7440-22-4 Silver 0.07 U P 7440-23-5 Sodium 48.1 B P 7440-22-0 Thallium 0.50 U N P 7440-66-6 Zinc 1.6 B P	Level (low/me	ed):	LOW		Date Received:	;			
Concentration Units (ug/L or mg/kg dry weight): MG/KG CA3 No. Analyte Concentration C Q M 7429-90-5 Aluminum 216 P 7440-36-0 Antimony 0.44 B P 7440-38-2 Arsenic 0.41 B P 7440-39-3 Barium 1.4 P 7440-41-7 Beryllium 0.02 B P 7440-41-7 Beryllium 0.04 U P 7440-47-3 Chromium 2.0.5 B P 7440-47-3 Chromium 2.0 P 7440-48-4 Cobalt 0.22 B P 7440-50-8 Copper 0.14 U P 7439-98-6 Iron 910 P 7439-95-1 Lead 0.86 N* P 7439-95-6 Mangnesium 36.0 B P 7439-97-6 Mercury 0.015 U CV 7440-02-0 Nackel 0.35 B P 7440-02-0 Nackel 0.35 B P 7782-49-2 Selenium 0.32 U P 7440-22-4 Silver 0.07 U P 7440-23-5 Sodium 48.1 B P 7440-22-0 Thallium 0.50 U N P 7440-66-6 Zinc 1.6 B P	% Solids: 0	95 1							
CAS No. Analyte Concentration C Q M 7429-90-5 Aluminum 216 P 7440-36-0 Antimony 0.44 B P 7440-36-2 Arsenic 0.41 B P 7440-39-3 Barium 1.4 P 7440-41-7 Beryllium 0.02 B P 7440-43-9 Cadmium 0.04 V P 7440-43-9 Cadmium 0.04 V P 7440-47-3 Chromium 2.0 B P 7440-48-4 Cobalt 0.22 B P 7440-48-6 Copper 0.14 V P 7439-89-6 Iron 910 P 7439-89-6 Iron 910 P 7439-95-1 Lead 0.86 N* P 7439-95-1 Lead 0.86 N* P 7439-95-6 Manganese 9.2 P 7439-97-6 Mercury 0.015 V CV 7440-02-0 Nickel 0.35 B P 7440-02-0 Nickel 0.35 B P 7782-49-2 Selenium 0.32 V P 7782-49-2 Selenium 0.32 V P 7740-23-5 Sodium 48.1 B P 7740-23-5 Sodium 48.1 B P 7740-23-0 Thallium 0.50 V N P 7740-66-6 Zinc 1.6 B P 7440-66-6 Zinc 1.6 B P	-								•
T429-90-5			Concentra	ation Units (ug/L o	r mg/kg dry weigh	it):		MG/I	KG
7440-36-0 Antimony 0.44 B P			CAS No.	Analyte	Concentration	С	Q	м	
7440-38-2 Arsenic 0.41 B P			7429-90-5	Aluminum	216	 	1	P	j
T440-39-3 Barium			7440-36-0	Antimony	0.44	В		P	1
T440-41-7 Beryllium 0.02 B P D T440-43-9 Cadmium 0.04 U P T440-43-9 Cadmium 0.04 U P T440-47-3 Chromium 20.5 B P T440-48-4 Cobalt 0.22 B P T440-50-8 Copper 0.14 U P U T439-89-6 Iron 910 P T439-89-6 Iron 910 P T439-95-4 Magnesium 36.0 B E P D T439-96-5 Manganese 9.2 P T439-97-6 Mercury 0.015 U CV T440-02-0 Nickel 0.35 B P T7440-02-0 Nickel 0.35 B P T7440-23-5 Sodium 0.32 U P T7440-23-5 Sodium 0.32 U P T7440-28-0 Thallium 0.50 U N P U T7440-66-6 Zinc 1.6 B P T7440-66-6 Zinc 1.6 B P T7440-66-6 Zinc 2.2 Zinc Zin	÷		7440-38-2	Arsenic	0.41	В	Ī	P	ĪL
7440-43-9 Cadmium			7440-39-3	Barium	i	ī	1	P	Ī
T440-43-9 Cadmium			7440-41-7	Beryllium	0.02	В	Ī	P	16
T440-47-3 Chromium 2.0 P T440-48-4 Cobalt 0.22 B P T440-50-8 Copper 0.14 U P U T439-89-6 Iron 910 P T439-95-1 Lead 0.86 N* P T439-95-1 Magnesium 36.0 B E P T439-95-6 Manganese 9.2 P T439-97-6 Mercury 0.015 U CV T440-02-0 Nickel 0.35 B P T782-49-2 Selenium 0.32 U P T782-49-2 Selenium 0.32 U P T740-23-5 Sodium 48.1 B P T740-23-5 Sodium 48.1 B P T740-28-0 Thallium 0.50 U N P U T740-66-6 Zinc 1.6 B P T7440-66-6 Zinc 1.6 B P T7440-66-6 Zinc Texture: COARSE Color After: YELLOW Clarity After: Artifacts:			7440-43-9	Cadmium	0.04	U	1	P	Ī
T440-48-4 Cobalt 0.22 B F T440-50-8 Copper 0.14 U F U T439-89-6 Iron 910 F T439-92-1 Lead 0.86 N* F T439-95-4 Magnesium 36.0 B F F T439-97-6 Manganese 9.2 F F T439-97-6 Mercury 0.015 U CV T440-02-0 Nickel 0.35 B F F T440-02-0 Nickel 0.35 B F F T440-02-4 Silver 0.07 U F T440-02-4 Silver 0.07 U F T440-02-5 Sodium 48.1 B F F T440-02-0 Thallium 0.50 U N F U T440-02-2 Vanadium 1.2 F F F T440-06-6 Zinc 1.6 F F F T440-06-6 Zinc 1.6 F F T440-06-6 Zinc Texture: COARSE Color After: YELLOW Clarity After: Artifacts:			7440-70-2	Calcium	20.5	В	1	P	Ī
7440-50-8 Copper 0.14 U P U 7439-89-6 Iron 910 P			7440-47-3	Chromium	2.0	1		P	Ī
T439-89-6			7440-48-4	Cobalt	0.22	В	1	P	Ī
7439-89-6			7440-50-8	Copper	0.14	ľŪ	1	P	Īuc
7439-95-4 Magnesium 36.0 B E P S 7439-96-5 Manganese 9.2 P P S 7439-97-6 Mercury 0.015 U CV F440-02-0 Nickel 0.35 B P F S F82-49-2 Selenium 0.32 U P F82-49-2 Selenium 0.32 U P F82-49-2 Selenium 0.32 U P F82-49-2 Sodium 48.1 B P F82-40-23-5 Sodium 48.1 B P F82-40-23-5 Sodium 48.1 B P F82-40-23-5 Sodium 1.2 B P F82-40-22-2 Vanadium 1.2 B P F82-40-66-6 Vanadium Value			7439-89-6	Iron	910	Ī			Ī
7439-95-4 Magnesium 36.0	ļ.		7439-92-1	Lead	0.86	1	N*	P	ĪĶ
7439-97-6 Mercury 0.015 U CV	전기 도 -		7439-95-4	Magnesium	36.0	B	E	P	Īβ
7440-02-0 Nickel 0.35 B P			7439-96-5	Manganese	9.2	1		P	Ī
7440-09-7 Potassium 59.8 B P			7439-97-6	Mercury	0.015	U	1	CV	Ī
7782-49-2 Selenium 0.32 U P			7440-02-0	Nickel	0.35	В	<u> </u>	P	IK
7440-22-4 Silver 0.07 U P			7440-09-7	Potassium	59.8	В		P	13
7440-23-5 Sodium 48.1 B P			7782-49-2	Selenium	0.32	טן		P	1
7440-28-0			7440-22-4	Silver	0.07	שן	1	P	1
7440-62-2 Vanadium 1.2 B P 7440-66-6 Zinc 1.6 B P 3 777 73 7440-66-6 Zinc Zin			7440-23-5	Sodium	48.1	В	ŀ	P	
Color Before: BROWN Clarity Before: Texture: COARSE Color After: YELLOW Clarity After: Artifacts:			7440-28-0		0.50	טן	N	P	luc
Color Before: BROWN Clarity Before: Texture: COARSE Color After: YELLOW Clarity After: Artifacts:			7440-62-2	Vanadium			1	P	!
Color Before: BROWN Clarity Before: Texture: COARSE Color After: YELLOW Clarity After: Artifacts:			7440-66-6	Zinc	1.6	B	<u> </u>	P]
Color After: YELLOW Clarity After: Artifacts:									3/27/03
Color After: YELLOW Clarity After: Artifacts:									
	Color Befor	e: BR	OWN	Clarity Before:	 -	T	exture:		COARSE
Comments:	Color After	: <u>YE</u>]	TTOM	Clarity After:		A	rtifact	:s: .	
	Comments:						_		

EPA SAMPLE NO.

Lab Name: CC	MPUCHE	м	Contra	act:				ss-	SB03-4
	BRTY	Case No.		S No.:		SDG N	0.:	R2812	!
Matrix (soil/w	ater):	SOIL		Lab Sample ID:		R2812	-4		
evel (low/med	l) :	LOW		Date Received:		12/06		·	
						==, 00	, 02		
Solids: 82	2.6	- Concentra	tion Units (ug/L c	or mg/kg dry weigh	t) :		MG/I	KG_	
		CAS No.	Analyte	Concentration	С	Q	м		
		7429-90-5	Aluminum	184		ļ	P	İ	
		7440-36-0	Antimony		В	i 	P	İ	
		7440-38-2	Arsenic	0.28	Ū	İ		jul	
		7440-39-3	Barium	0.98	В	i i	P	j	
		7440-41-7	Beryllium	0.01	В		P	İΒ	
		7440-43-9	Cadmium	0.04	U	1	P	Ī	
		7440-70-2	Calcium	18.2	В		P	Ī	
		7440-47-3	Chromium	1.4	l	Ī	P	}	
		7440-48-4	Cobalt	0.10	B		P	Ī	
		7440-50-8	Copper	0.16	U		P	IUL	
		7439-89-6	Iron	619			P	1	
		7439-92-1	Lead	0.75		N*	P	IK	
		7439-95-4	Magnesium	25.3	В	E	P	IB .	
		7439-96-5	Manganese	2.4		<u> </u>	P	Ţ	
		7439-97-6	Mercury	0.020	บ		cv	<u> </u>	3/27/3
		7440-02-0	Nickel	0.11	U	1	P		3150
		7440-09-7	Potassium	56.2	В	<u> </u>	P	13	
		7782-49-2	Selenium	0.37	Ū	1	P	<u> </u>	
		7440-22-4	Silver	0.08	U	ļ	P	<u>l</u> .	
		7440-23-5	Sodium		В	<u> </u>	P	ĪĆ	
		7440-28-0	Thallium		U	N	P	luc	
		7440-62-2	Vanadium		В	<u> </u>	P	<u> </u>	
		7440-66-6	Zinc	1.5	В	<u> </u>	P	Įβ	

A Division of Liberty Analytical Corp. 501 Madison Avenue Cary, NC 27513

INORGANIC CASE SUMMARY NARRATIVE

SDG # S2812 PROTOCOL #SW-846

The indicated Sample Delivery Group (SDG) consisting of two (2) water samples was received into the laboratory management system (LIMS) on December 9, 11, 2002 intact and in good condition with Chain of Custody (COC) records in order. Sample ID's reported in this data package are noted by the receiving department on the COC if they differ from those listed by the samplers on the COC.

The samples were analyzed for the metallic TAL list using analytical methods delineated in SW-846 (update III).

SAMPLE IDs:

The cover page contained in this package lists the client ID's and the associated CompuChem numbers which are part of this SDG.

INSTRUMENTAL QUALITY CONTROL:

All calibration verification solutions (ICV & CCV), blanks (ICB, CCB) and interference check samples (ICSA & ICSAB) associated with this data were confirmed to be within SW-846 allowable limits.

SAMPLE PREPARATION QUALITY CONTROL:

The sample preparation procedure verifications (LCSW & PBW) were found to be within acceptable ranges. All field samples were run within contract holding times.

MATRIX RELATED QUALITY CONTROL:

The sample matrix quality control was not requested on this SDG. The samples are rinsate blanks. An LCS was performed.

Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Mary K. Powell
Data Reviewer II

December 20, 2002

Note: This report is paginated for reference and accountability.

2B-IN CRDL STANDARD FOR AA AND ICP

Lab Name:	COMPUCHEM		Contract:			
Lab Code:	<u>LIBRTY</u> Case	No.:	SAS No.:		SDG No.:	<u>\$2812</u>
AA CRDL St	andard Source:	HIPUR				
ICP CRDL S	tandard Source:	HIPUR	<u> </u>			
		C	twation []	nita, wa/T		

Concentration Units: ug/L

				CRDL Standard for ICP Initial Final			_
N 1 4 -	<u> </u>					Fina	_
Analyte	True	Found	%R	True	Found &R	Found	₹R
Aluminum	1			100.0	111.14 111.1		
Antimony	1	1		10.0	9.68 96.8		
Arsenic	l i			10.0	10.71 107.1		
Barium		İ		10.0	10.67 106.7		
Beryllium		i		5.0	5.12 102.4		
Cadmium				5.0	5.41 108.2		Ì
Calcium				1000.0	1026.62 102.7		
Chromium				5.0	5.00 100.0		
Cobalt				5.0	5.25 105.0		Ì
Copper				5.0	5.26 105.2		
Iron		ĺ		100.0	103.11 103.1	·	
Lead				3.0	4.13 137.7		
Magnesium				1000.0	996.84 99.7		İ
Manganese				10.0	10.08 100.8		
Mercury	0.2	0.24	120.0	İ			<u> </u>
Nickel				5.0	5.15 103.0		İ
Potassium		İ		1000.0	1103.84 110.4		
Selenium				5.0	5.70 114.0		
Silver		i		5.0	4.58 91.6		İ
Sodium		1		2000.0	1560.94 78.0		
Thallium		i		10.0	11.34 113.4		
Vanadium		i		20.0	20.13 100.6		İ
Zinc				20.0	20.82 104.1		

Control Limits: no limits have been established by EPA at this time

13

PREPARATION LOG

Lab	Name:	COMPUCHEM		Contract:	·		
Lab	Code:	LIBRTY	Case No.:	SAS No.:		SDG No.:	S2812

Method: P

EPA Sample No.	Preparation Date	Volume (mL)
ER-SS-120402	12/18/02	50.0
ER-SS-121002	12/18/02	50.0
LCSW	12/18/02	50.0
PBW	12/18/02	50.0

PREPARATION LOG

Lab	Name:	COMPUCHEM		Contract:		
Lab	Code:	LIBRTY	Case No.:	SAS No.:	SDG No.:	S2812

Method: CV

EPA Sample No.	Preparation Date	Volume (mL)
ER-SS-120402	12/18/02	100.0
ER-SS-121002	12/18/02	100.0
LCSW	12/18/02	100.0
PBW	12/18/02	100.0

14

ANALYSIS RUN LOG

Lab Name: COMPUCHEM		Contract:				
Lab Code: LIBRTY	Case No.:	SAS No.:	SDG No.: <u>S2812</u>			
Instrument ID Number: V3		Method: CV				
Start Date: <u>12/19/02</u>		End Date: 12/19/02				

EPA													1	Ana	ly	te	s						-				
Sample No.	D/F	Time	% R	A		A S		B E	C D	C A	C R			F'		M G		H		K			N		v	Z	С
so	1.00	1030		~	_	5		۳	۲	^	_	١٠	Ľ	L.	А	G	N	G	I	L	E	G	A	L		N	N
S0.2	1.00			-			<u> </u>	-	H	Щ	_	_	<u> </u>	H		_		X		ļ	Ļ	L	L			Н	_!
\$0.5	1.00			ļ					├				Ļ.	Н	_	<u> </u>	L	X		<u> </u>	Ц,	Ļ				\dashv	¦
s1	1.00			Н		_	_	<u> </u>	-			L		Ш				X		H		<u> </u>	Ц			Ц	¦
\$5	1.00			\vdash					-			-		Ш	_	ļ	_	X	_	H			\vdash	_	_		-!
S10	1.00							_	\vdash	Н			Ц			H	Н	X		Ļ.,		_		_	Н		¦
ICV	1.00	1045		Н	_				H	Н	_						Щ	x			<u> </u>	_		\dashv		\dashv	—¦
ICB	1.00	1047		H						H		Н	Ш					X	_		Щ		Н	_	_	4	¦
CRA	1.00	1050		Н	\dashv					H	-	H	Н	-		_	Н	X			Ш				_	\dashv	-!
CCV	1.00	1052				긕					-		Н			\dashv	-	x	_		-				4		-¦
CCB	1.00	1054			-	-		_	Щ	Н	\dashv				_	Н	-	x	-	Щ	Н		닉	\dashv	-	\dashv	—!
ZZZZZZ	1.00	1057			_		\dashv		Щ	Н	\dashv	Н							_		Ш				ᅱ		-!
ZZZZZZ	1.00	1059							Ш	_		[] 				\dashv	_			_	Н	_	\dashv	\dashv	-	\dashv	-¦
ZZZZZZ	1,00	1101	-		ᅱ	_ <u> </u>			4				\dashv	\dashv	-1	-	-		\dashv		Н		Ц	ᅱ	┥	+	-¦
ZZZZZZ	1.00	1103			_	-	ᅥ	_			一		\dashv	\dashv	\dashv	-	\dashv	ᆛ	ᆛ	_	Н				4	\dashv	-¦
222222	1.00	1106	i	_			ᅱ	ᅥ	<u> </u>			\dashv	_	+	닉				_	_			- 1	<u> </u>	닉	\dashv	-¦
ZZZZZZ	1.00	1108		T	7		-	\dashv	_		႕	_		-+	_	-	-	-	\dashv		\vdash	_			-	+	-!
ZZZZZZ	1.00	1110		7	T	1	-		<u> </u>	-+	-		-	┪	╣	-	1	{	긤			_		-+	\dashv	┪	-¦
ZZZZZZ	1.00	1112		一	†	ᅥ	T†	\dashv	-		-		\dashv	-	_	-	\dashv	╌┤	\dashv	<u> </u>		-	+	\dashv	\dashv	\dashv	-¦
222222	1.00	1114		寸	\dashv	ᅥ	1		ᅥ	- 	\dashv	ᆉ	\dashv	十	-		┥	- 	┥			-	+	\dashv	\dashv	+	-1
ZZZZZZ	1.00	1117			1	1		_	-	-	1	_	\dashv	t	1	\dashv	\dashv		-	ᆛ	\dashv		-	\dashv	-	\dashv	-¦
ccv	1.00	1119	_	t	寸	寸	寸	ᅥ	ᅥ	1		I	\dashv	+	1	ᅥ	ᅥ	x	+	-	+	4	+	+	\dashv	+	-¦
CCB	1.00	1121		寸	T	٦ţ	寸	┪	_	ᅥ	1		十	\dashv	_	┪	+	$\frac{1}{x}$	-	-	-		+	+	┪	\dashv	-¦
ZZZZZZ	1.00	1124		7	7	_	寸	7		十	十	+	-†	十	\dashv	+	\dashv	7	+	ᆉ		╬	+	+	+	-	-¦
ZZZZZZ	1.00	1126		1	7	1	7	╗	7	\dashv	-	寸	7	十	\dashv	+	\dashv		1		\dashv	ᅥ	ᆉ	+	+	H	-¦
ZZZZZZ	1.00	1128		1	寸	十	_	_	寸	-1	\dashv		┪	十	ᆉ	┪	\dashv	ᅥ	ᅥ	\dashv	+	-	+	ᆛ	ᆉ	+	-¦
ZZZZZZ	1.00	1130		_	寸	+	寸	寸	7	十	_	+	十	7	7	\dashv	+	1	\dashv	┪	+	ᅥ	十	\pm	\dashv	\dashv	-1
ZZZZZZ	1.00	1132			寸	寸	十	寸	\dashv	十	+	寸	寸	十	甘	┪	\dashv	\dashv	ᅥ	\dashv	+	\dashv	十	┪	\dashv	+	-¦
ZZZZZZ	1.00	1135		丁	十	寸	7	\dashv	寸	寸	1	7	寸	十	十	1	\dagger	+	+	ᅥ	┪	┪	\dashv	\forall	+	+	-¦
ZZZZZZ	1.00	1137		寸	\top	寸	T	1	\exists	十	十	十	+	\dashv	+	十	+	┪	+	ᆉ	\dashv	┪	十	+	\dashv	+	-
ZZZZZZ	1.00	1139		\neg	\neg	寸	\exists	寸	i	十	1	寸	十	十	\forall	+	\forall	7	+	ᆉ	-+		+	╅	十	十	-¦
ZZZZZZ	1.00	1141		T	T	Ť	寸		7	1		寸	┪	Ť	寸	+	十	\dashv	+	+	十	┪	十	十	十	十	-¦
ZZZZZZ	1.00	1144		T	十	T	+	寸	1	\dashv	十	寸	\top	\dashv	\dashv	+	+	+	+	ᆉ	+	+	+	+	+	十	-¦
CCV	1.00	1146		7	1	T	Ť	1	寸	十	+	寸	\dagger	_	+	+	\dashv	x	+	+	十	+	+	+	+	+	-[
CCB	1.00	1148		\top	寸	1	寸	†	寸	+	\dashv	\dagger	\dashv	\top	\dagger	+	÷	x	\dagger	十	+	\dashv	十	+	+	+	-¦
ZZZZZZ	1.00	1150		1	寸	Ť	1	寸	T	十	\dagger	7	+	十	+	\dagger	\dashv	+	+	+	+	+	+	+	+	+	-¦
ZZZZZZ	1.00	1153	i	\dashv	1	i	1	+	T	\dashv	\top	\top	+	+	\dagger	+	+	+	+	十	十	+	十	+	+	+	-¦
ZZZZZZ	1.00	1155		\top	寸	1	\top	+	+	\top	\dagger	十	+	1	+	+	+	\dashv	十	+	+	+	+	+	+	+	-¦

14

ANALYSIS RUN LOG

Lab Name: COMPUCHEM	·····	Contract:	
Lab Code:LIBRTY	Case No.:	SAS No.:	SDG No.: <u>S2812</u>
Instrument ID Number: V3		Method: CV	
Start Date: 12/19/02		End Date: 12/19/02	

EPA	<u> </u>			Γ									7	\na	ıly	te	ş										
Sample	D/F	Time	% R	A	3	A	В	В	c	C	C	C	С	F	P	М	М	н	N	ĸ	s	A	N	T	٧	z	С
No.				L	В	S		E							В	G		G	I		E	G	A	L		И	N
ZZZZZZ	1.00	1157																									
ZZZZZZ	1.00	1200																									
ZZZZZZ	1.00	1202																									\equiv I
ZZZZZZ	1.00	1204																								П	_
ZZZZZZ	1.00	1207																									_
ZZZZZZ	1.00	1209																									_
ZZZZZZ	1.00	1211																									\equiv I
CCV	1.00	1213										 _						x									\equiv I
ССВ	1.00	1216																х	П					\neg		П	-
ZZZZZZ	1.00	1218														П	П						Π			П	_
ZZZZZZ	1.00	1220																					j				_
ZZZZZZ	1.00	1222	_																								_
ZZZZZZ	1.00	1225																									\equiv I
ZZZZZZ	1.00	1227																						\neg		П	_ i
ZZZZZZ	1.00	1229																					Î			П	٦į
ZZZZZZ	1.00	1231								ΪÏ														ヿ			-i
ZZZZZZ	1.00	1234																					Ī	Î	_	П	_ i
ZZZZZZ	1.00	1236								ΙĪ							Πĺ						Î	Î		ΠÌ	-i
222222	1.00	1238	-						Ī	ΙΊ						_							ī			П	_i
ccv	1.00	1240								Ì							Πİ	х	ī				i	Î		П	-i
CCB	1.00	1243															Πİ	X					Î	ヿ	T		−j
ZZZZZZ	1.00	1245																					Ī	一	T		-j
ZZZZZZ	1.00	1247	-														П			_			T	一		П	-j
ZZZZZZ	1.00	1249		H													П						ī	一		\Box	-j
ZZZZZZ	1.00	1252								П							П					T	i		7	ヿ	-i
ZZZZZZ	1.00	1254								ĪĪ		П					П						T	Ī	コ	T	-i
ZZZZZZ	1.00	1256								Π		П											T	T	ヿ		-i
ZZZZZZ	1.00	1258																					ī			ヿ	-i
ZZZZZZ	1.00	1301										П					П			ī			ヿ		┪	コ	-i
PBW	1.00	1303				Ī												х					T		╗	\Box	-i
LCSW	1.00	1305				_ i				П		П		Π			П	х		T	П		Ī	寸	\neg	\sqcap	٦j
ccv	1.00	1308				i								П			П	х				П	ì		寸	寸	-i
CCB	1.00	1310															П	х			П		1		ヿ	\Box	-j
ER-SS-120402	1.00	1312				Ī				Πİ				コ			П	х			П	\Box	1	7	ᅵ	\Box	-i
ER-SS-121002	1.00	1315	-		T	i			П				П				\Box	х					寸	寸	┪	1	-i
ZZZZZZ	1.00	1317				Ī				Π													寸		1	T	-i
ZZZZZZ	1.00	1319				Ī						П					\Box	٦		i			1	i		一	-i
ZZZZZZ	1.00	1321				i						П	П				$ \cdot $			\dashv	П	_	1	寸	7	T	-i

14

ANALYSIS RUN LOG

Lab Name: COMPUCHI	EM							(Cor	ntr	ac	t:															
Lab Code: LIBRTY		Cas	e No.:	_						5 N			_	_	_	_	_	SD			. : 8	 32F	 11:5				
Instrument ID Num	ber: <u>V3</u>							. 1	Met	tho	d:		<u> </u>	,													
Start Date: 12/1	9/02							I	Enc	i D	at	e :	1:	2/1	.9/	02			_								
EPA Sample	D/F	Time						_					- 2	- Ana	.ly	te	5			_			_		_		
No.	D/F	Time	% R	A L			B	B E						F			M				S						C
ZZZZZZ	1.00	1324			┝	-	\vdash	-	-		-	┝	Ľ		F	-	-	_		_	E	9		L	<u> </u>	N	N
ZZZZZZ	1.00	1326						-		Н	_	<u> </u>	<u> </u>		H	ļ.,	\vdash		Ш	_	Ш	Ш	Ш	<u> </u>	ᆫ	Ш	L
ZZZZZZ	1.00	1328					H		H	Н	_	<u> </u>			-	_	Н			_	Щ			╚	_	Ш	L
ZZZZZZ	1.00	1331			_		H		Щ	Н		-	<u> </u>	Н	Н	Ц	\Box				Ц	_	Ш	Ш	Ш	Ш	L.
ZZZZZZ	1.00	1333			_		├╌┤		Ч			Ļ					Ц		\sqcup	_	Ц	_	Ш	Щ	Ш	Ш	
CCV	1 00	1335				Щ		-4		Ц	_	Щ	Щ	ļ				_									

1.00 1335

1.00 1338

CCB

14

ANALYSIS RUN LOG

Lab Name: COMPUCHEM		Contract:	<u> </u>
Lab Code: LIBRTY	Case No.:	SAS No.:	SDG No.: <u>S2812</u>
Instrument ID Number: P4		Method: P	
Start Date: 12/19/02		End Date: <u>12/19/02</u>	

EPA														na												
Sample	D/F	Time	% R	A		A	- 1	В		C		С			- 1	M		Н						_ [V	Z
No.			1	L	В	S	A	E	D	A	R	0	U	E	В	G	И	G	I		E		A	L		N
S0	1.00	1332		Х	Х	х	х	х	X	x	X	х	X	х	Х	x	Х		X	_			\mathbf{x}	X	x	X
S	1.00	1341							Х		x		X		X				X		X	\mathbf{x}		x		х
S	1.00	1349		X						x				\mathbf{x}		X										
S	1.00	1354				x	х	X				Х					X						Ш		х	
8	1.00	1400																		X			X		Ш	┙
S	1.00	1406			X																				Ш	
ICV	1.00	1412		х			X	Х	X	x	х	x	X	x		X	X		Х	X			\mathbf{x}		x	Х
ICV	1.00	1420																								
ICV	1.00	1428			х	х									х						X	x		X		
ICB	1.00	1436		х	X	х	х	х	х	x	х	x	x	x	х	x	x		x	X	X	x	X	Х	x	Х
ZZZZZZ	1.00	1449																								
ICSA	1.00	1457		х	х	х	х	x	x	х	х	х	х	х	х	x	x		х	х	x	x	x	Х	х	X
ICSAB	1.00	1509		х	х	х	х	x	х	Х	х			_	х	_	х		х	X	х	x	х	Х	х	X
ccv	1.00	1517		х	х	х	х	х	х	Х	х	х	x	х	х	x	х		х	Х	х	x	х	х	$ \mathbf{x} $	х
CCB	1.00	1525		x	х	х	х	х	х			х		х	х	х	х		х	Х	x	X	х	Х	x	Х
LRS	1.00	1535		х	х	х	х	x	х	х	_	х		х			x		х	х	х	x	X	x	$ \mathbf{x} $	х
222222	1.00	1543	ļ · · · · · · · · · · · · · · · · · · ·	1	i								1										П			
ZZZZZZ	1.00	1551	i										Ī													П
ZZZZZZ	1.00	1558	[İ			П							П					İ				
ZZZZZZ	1.00	1606											İ					-			Ī	İ				
ZZZZZZ	1.00	1613	i	İ									Ī								Ī	Г	П			
ZZZZZZ	1.00	1621	i -	<u> </u>						ΙÏ			Γ	i		Γ	П				1	ĺ				П
ZZZZZZ	1.00	1628					Ì			Ī		Γ	ÎΤ						П	Ì	Ī	Π				
2222 2	5.00	1636	Ì	İ								Ī	Ī		Ī							ĺ				
ZZZZZZ	1.00	1644			ÌΠ		Ī						ĺΤ								İ					
CCV	1.00	1651		x	x	х	х	х	x	х	Х	х	x	х	х	х	х		х	х	x	х	x	x	x	х
ССВ	1.00	1659	İ	x	х	х	x	x	х	х	Х	•	•	х	х	x	х		х	х	x	x	x	x	х	x
PBW	1.00	1706		x	х	x	x	x	х	х	х		-	x	х	x	x		х	x	x	x	х	x	х	Х
LCSW	1.00	1714	1	ĺχ	x	х	X	х	x	x		•	_	х	•—	X	х		х	x	x	х	Х	х	х	х
ER-SS-120402		1721		x	X	х		х		_				•			х		х	x	x	х	х	х	х	
ER-SS-121002		1729	1			х													х				х			
ZZZZZZ		1737	<u> </u>	1			i	_	厂		Π	Ť	T	Ĺ		i			Τ		Ī	Π	П	Ì		Γ
ZZZZZZ		1744		1			i	i –	Г	1	 	T	Ĺ	T	Т	T	1	-	Г	Г	Γ	1		Ī	Г	
ZZZZZZ		1752	1		i	 	ī	1	Г		1	T	t	T	T	1	T	T	Г	T	Ī	T	П	Ī		Γ
ZZZZZZ		1759	 	 	i		1		T	T		1	Ħ	T	Г	Г	T	\vdash	Γ	T	i	T	Γ	<u> </u>	Γ	Γ
ZZZZZZ		1807	1	-	1		1	İ	Ħ	i	i	T	T	T	 		T	Г	厂	Г	Ĺ	İ	1	Ī		Γ
22222		1814		†	\vdash	T	\vdash	T	T	\vdash	H	\vdash	†	i	1	1	T	 		T	İ	Τ	Г	Ī	Г	Г
CCV		1822	 	1x	ĺχ	х	İχ	ĺх	x	lх	x	ᅡ	1 ~	v	x	x	\mathbf{x}		x	x	x	x	х	ix	x	x

14

ANALYSIS RUN LOG

Lab Name: COMPUCHEM	·																
Lab Code:LIBRTY		Cas	e No.:				ract:										
Instrument ID Number	er: <u>P4</u>	_	· 10			SAS				SI	OG N	۰.:	<u> 528</u>	12			
Start Date: 12/19/	02					Meth		P		•							
EPA						End 1	Date:	12/1	9/02	2				•			
Sample No.	D/F	Time	% R	A S L B S	S A E		RO	CF	عاها	M H N G	I	E		AL		Z	N
								A A	A A	L^I_	X 3	(X	X	x x	x	X	寸

CompuChem

a division of Liberty Analytical Corporation 501 Madison Avenue Cary, N.C. 27513

Tel: 919/379-4100

Fax: 919/379-4050

SDG NARRATIVE SDG #T2812

SAMPLE IDENTIFICATIONS: GW-MW01 GW-MW02 GW-MW02-D TRIPBLANK 1-7 GW-MW08 GW-MW10 GW-MW11 GW-MW07 GW-MW09 GW-MW05 GW-MW06 GW-MW03 ER-SS-010803 ER-SS-010903 TRIPBLANK 1-8 TRIPBLANK 1-9

The sixteen water samples listed above were received intact, at 2.6, 3.3, 3.7, 2.1, 2.4, 3.2, 2.2, and 3.1 degrees C, in sealed shipping containers, on January 08, 09, 10, and 15, 2003. The majority of samples were submitted for volatile, TSS, TDS, semivolatile, pesticide-PCB, and metals analysis, and samples TRIPBLANK 1-7, TRIPBLANK 1-8, and TRIPBLANK 1-9 were submitted for volatile only analysis. The volatile samples were prepared and analyzed following SW846 Method 8260B, and this portion of the SDG narrative will only cover the volatile data. All pertinent Quality Assurance Notices are included in the narrative section, and all pertinent Laboratory Notices for SDG # T2812 are included in the sample data sections.

Analysis Holding Time(AHT) requirements were met for all samples, and all sample pH values were less than 2.0. A copy of the pH results accompanies this narrative.

No Target Compound List(TCL) analytes were identified above the reporting limits in the submitted samples with the exception of tetrachloroethene in GW-MW08.

Other than laboratory artifact peaks, no reportable Tentatively Identified Compounds (TICs) were present in the submitted samples.

All Bromofluorobenzene (BFB) abundance criteria were met for tunes associated to this SDG. Overall QC criteria were met for all initial and continuing calibration standards associated to this SDG.

The system monitoring compounds (SMCs) met recovery criteria in the analyses of these samples, and all of the internal standards met retention time and response criteria in the analyses of these samples.

The associated method blanks met all quality control criteria, and did not contain any target analytes above the reporting limits.

Duplicate matrix spikes were generated from GW-MW11 as requested, and met the majority of QC precision and accuracy criteria. The associated Laboratory Control Samples (LCSs) met all accuracy requirements.

Manual quantitations were performed on the process files in some of the the associated initial, and continuing calibration(s), and in sample GW-MW07. The reasons have been coded with explanations provided in the notice included in the narrative section of this SDG.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Roy Sutton Case Reviewer

January 27, 2003

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

	SS-SB04-0
me: COMPUCHEM Contract:	
	R2812
(soil/water): SOIL Lab Sample ID: R2812-11	
(low/med): LOW Date Received: 12/06/02	
ds: 90.8	
Concentration Units (ug/L or mg/kg dry weight): MG/K0	
Concentration units (ug/L or mg/kg dry weight):	-
CAS No. Analyte Concentration C Q M	
7429-90-5 Aluminum 8530 P	
7440-36-0 Antimony 0.38 U P	
7440-38-2 Arsenic 0.92 B P	
7440-39-3 Barium 14.1 P	
7440-41-7 Beryllium 0.12 B P	
7440-43-9 Cadmium 0.04 U P	
7440-70-2 Calcium 182 P	
7440-47-3 Chromium 10.0 P	
7440-48-4 Cobalt 0.73 P	
7440-50-8 Copper 1.0 P	1
7439-89-6 Iron 9060 P	<u> </u>
	/
7439-92-1 Lead 6.9 N* P	K

24.1

0.020 B

2.3

445

0.74

0.07 U

68.5 B

|U |N

0.53

19.4

8.7

P

| cv |

P

P

P

₽

P

PIK

PIL

PIUL

7439-96-5

7439-97-6

7440-02-0

7440-09-7

7782-49-2

7440-22-4

7440-23-5

7440-28-0

7440-62-2

7440-66-6

Manganese

Potassium

Selenium

Silver

Sodium

Thallium

Vanadium

Zinc

Mercury

Nickel

Color Before:	BROWN	Clarity Before:	 Texture:	COARSE
Color After:	YELLOW	Clarity After:	 Artifacts:	
Comments:			 	

			INORGANIC AN	ALISES DATA SHE	E I			EPA SAI	MPLE NO.	
Lab Name:	COMPUC	CHEM	Contr	act:				ss-s	B04-1	
Lab Code:	LIBRTY	Case No	.:SA	.s No.:		SDG No	o.:	R2812		
Matrix (soi	1/water): SOIL		Lab Sample ID	:	R2812	-12	-		
Level (low/	med):	LOW		Date Received		12/06				
					-		, , ,		_	
% Solids:	90.5	<u> </u>								
		Concentr	ation Units (ug/L	or mg/kg dry weigh	nt):		MG/	KG.		
		CAS No.	Analyte	Concentration	С	Q	М			
		7429-90-5	Aluminum	272	1	 	P	Ϊ		
		7440-36-0	Antimony	0.39	שׁ		P	Ī		
		7440-38-2	Arsenic	0.26	ļσ		P	Ī		
		7440-39-3	Barium	2.0	1		P	Ī		
		7440-41-7	Beryllium	0.03	B	<u> </u>	P	įβ		
		7440-43-9	Cadmium	0.11	В		P	Ī		
		7440-70-2	Calcium	71.6	B	1	P	1		
		7440-47-3	Chromium	1.5	<u> </u>	<u> </u>	P	<u>[</u>		
		7440-48-4	Cobalt		В		P	<u> </u>		
		7440-50-8	Copper	· 	ĺΩ	<u> </u>	P	luc		
		7439-89-6	Iron	756	<u> </u>	<u> </u>	P			
		7439-92-1	Lead	0.71		N*	P	ĮΚ		
		7439-95-4	Magnesium		В	E	P	12		
		7439-96-5	Manganese	10.8	<u> </u>	1	P	l		
		7439-97-6	Mercury	- }	מן		CV	<u> </u>	. 1.	
		7440-02-0	Nickel	~:	В	<u> </u>	P		3/27/01	
		7440-09-7	Potassium		В	<u> </u>	P	B	J1 42	
		7782-49-2	Selenium		U	<u> </u>	P	-		
		7440-22-4	Silver	:	B	!	P	 :)		
		7440-23-5	Sodium		В	<u> </u>	P	<u> </u>		
		7440-28-0	Thallium		<u>. </u>	N		ul		
		7440-62-2	Vanadium		В	1	P			
		7440-66-6	Zinc	3.5	<u> </u>	1	P			
Color Bef	ore: G	RAY	Clarity Before:		Te	exture:	(COARSE	* •	_
Color Aft	er: Y	ELLOW	Clarity After:		Aı	tifact	8:	- 		
Comments:										

EPA SAMPLE NO.

Lab Code: LIBRTY Case No.: SAS No.: Matrix (soil/water): SOIL Lab Sample ID Level (low/med): LOW Date Received * Solids: 80.8 Concentration Units (ug/L or mg/kg dry weig) CAS No. Analyte Concentration): <u>R2</u>	S No.: 812-13 /06/02	R2812
Matrix (soil/water): SOIL Lab Sample ID Level (low/med): LOW Date Received % Solids: 80.8 Concentration Units (ug/L or mg/kg dry weig): <u>R2</u>	812-13	R2812
Level (low/med): LOW Date Received % Solids: 80.8 Concentration Units (ug/L or mg/kg dry weig			
% Solids: 80.8 Concentration Units (ug/L or mg/kg dry weig	l: <u>12</u>	/06/02	
Concentration Units (ug/L or mg/kg dry weig			
Concentration Units (ug/L or mg/kg dry weig			
			•
CAS No. Analyte Concentration	ht):	MG/	KG
	C	M O	
7429-90-5 Aluminum 293	+ + -	P	-
7440-36-0 Antimony 0.45	B	P	<u>-</u>
7440-38-2 Arsenic 0.30	U	P	-
7440-39-3 Barium 1.7	Ti	P	Ī
7440-41-7 Beryllium 0.01	ע	P	i
7440-43-9 Cadmium 0.05	U	P	j
7440-70-2 Calcium 49.9	B	P	1
7440-47-3 Chromium 2.7		P	1
7440-48-4 Cobalt 0.09	B	P	Ī
7440-50-8 Copper 0.17	ן ט	P	īuc
7439-89-6 Iron 696	1 1	P	Ī
7439-92-1 Lead 0.72	N*	P	IK
7439-95-4 Magnesium 41.2	B E	P	
7439-96-5 Manganese 6.5	1 1	P]
7439-97-6 Mercury 0.019	n	l cv	
7440-02-0 Nickel 0.31	В	P	
7440-09-7 Potassium 58.6	B	P	IB
7782-49-2 Selenium 0.39	U	P	<u>[</u>
7440-22-4 Silver 0.08	n	P	
7440-23-5 Sodium 58.3	B	P	
7440-28-0 Thallium 0.61	И П	P	luL
7440-62-2 Vanadium 1.0	B	P	<u>[</u>
7440-66-6 Zinc 2.9	<u> </u>	P	<u>[</u>
Color Before: GRAY Clarity Before:	Textu	re:	COARSE
Color After: YELLOW Clarity After:	Artif	acts:	
Comments:			·

						e	-	EPA SAMP	
Lah Nawa:	COMPTION	EM.	Cambo	enct.				SS-SB	05-0
Lab Name:	COMPUCH		Contr					D0010	
Lab Code:	LIBRTY	Case No.	: S2	AS No.:		SDG N	φ.:	R2812	
Matrix (soi	l/water):	SOIL		Lab Sample ID:	•	R2812	2-14		_
Level (low,	med):	LOW		Date Received:	:	12/0	6/02		_
% Solids:	93.6								
								-	
		Concentrat	ion Units (ug/L	or mg/kg dry weigh	1 t):		MG/	KG	
		[1	T	Т.	T .	Т	٦	
		CAS No.	Analyte	Concentration	C	Q	M		
		7429-90-5	Aluminum	5350	\vdash	†	P	' i	
		7440-36-0	Antimony	 	Įυ	i i	P	i	
		7440-38-2	Arsenic	0.67	B	Ī	P	j	
		7440-39-3	Barium	10.7	Ì	Ì	P	<u> </u>	
		7440-41-7	Beryllium	0.08	В	1	P	7B	
		7440-43-9	Cadmium	0.04	U		P	Ī	
		7440-70-2	Calcium	174			P	7	
		7440-47-3	Chromium	6.4	1	1	P	7	
		7440-48-4	Cobalt	0.59	Π		P	Ī	1
		7440-50-8	Copper	0.41	В	1	P	<u> </u>	3/2+6
		7439-89-6	Iron	5970	1_	1	P	<u> </u>	٠,٠
		7439-92-1	Lead	4.6	<u> </u>	N*	P	<u> </u>	
		7439-95-4	Magnesium	266	<u> </u>	E	P	12	
		7439-96-5	Manganese	22.0	<u>L</u>	1	P		
		7439-97-6	Mercury	0.032	В	<u> </u>	CV		
		7440-02-0	Nickel	1.5	<u> </u>	<u> </u>	P		
		7440-09-7	Potassium	361	<u> </u>	<u> </u>	P		
		7782-49-2	Selenium	0.74	<u> </u>	<u> </u>	P	ĪK	
		7440-22-4	Silver		יין	<u> </u>	P	<u> </u>	
		7440-23-5	Sodium	<u> </u>	B	<u> </u>	P	<u> </u>	
		7440-28-0	Thallium	0.53	ļu i	IN IN	P	luc	
-		7440-62-2	Vanadium Zinc	13.3	<u> </u>	1	P P	 -	
								1	

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

سمه Name: (COMPUCHE	:M	Contra	ct:				SS-SI	305-1
•	JBRTY	Case No		No.:		SDG No	o.;	R2812	
Matrix (soil/	water):	SOIL		Lab Sample ID:	_	R2812	-15		
Level (low/me	nd):	LOW		Date Received:		12/06			
% Solids: 9	3.7								
-		- Concentra	ation Units (ug/L o	mg/kg dry weigh	ıt) :		MG/I	К <u>С</u>	
		CAS No.	Analyte	Concentration	С	Q	М		
		7429-90-5	Aluminum	204	1		P	j	
		7440-36-0	Antimony	0.43	B		P	Ī	
		7440-38-2	Arsenic	0.25	ן טן		P	İ	
		7440-39-3	Barium	1.3	<u> </u>		P	1	
		7440-41-7	Beryllium	0.01	u		P	1	
		7440-43-9	Cadmium	0.04	la l		P	Ì	
		7440-70-2	Calcium	31.7	B		P	<u>]</u>	
		7440-47-3	Chromium	2.6	1 1		P	<u> </u>	
		7440-48-4	Cobalt	 	B		P	1	
	• .	7440-50-8	Copper		ן ט		P	inc	
		7439-89-6	Iron	843	<u> </u>		P	<u> </u>	
1 4 1 2		7439-92-1	Lead	0.71	•	N*	P	1KD	
e :		7439-95-4	Magnesium		B	E	P	ا ال	
		7439-96-5	Manganese	5.0			P	<u> </u>	
		7439-97-6	Mercury		ן ט		cv	<u> </u>	
		7440-02-0	Nickel		B		P	1 4	
		7440-09-7	Potassium Selenium	·	B		P	1/5	
		7440-22-4	Silver		U		P	1	
		7440-22-4	Sodium	· · · · · · · · · · · · · · · · · · ·	U B		P P	<u> </u>	3/27=103
		7440-23-3	Thallium	·	U	N 7	: -] <u></u>	2
		7440-62-2	Vanadium	·	B	14	P	luc	
		7440-66-6	Zinc	·	B		l P	<u>!</u> !	
			•		<u>, , , , , , , , , , , , , , , , , , , </u>		•	:	
Color Befor	e: BRO	ий	Clarity Before:		Тө	xture:		COARSE	
Color After	: YEL	TOM	Clarity After:		Ar	tifact	s: .		
Comments:							· 		

EPA SAMPLE NO.

MG/KG

Lab Name: COMPUCHEM	Contract:	SS-SB05-4
Lab Code: LIBRTY Case No.:	SAS No.:	SDG No.: R2812
Matrix (soil/water): SOIL	Lab Sample ID:	R2812-16
Level (low/med): LOW	Date Received:	12/06/02
% Solids: 80.8		

Concentration Units (ug/L or mg/kg dry weight): CAS No. Analyte Concentration C Q М 7429-90-5 Aluminum 276 P 7440-36-0 0.44 U Antimony P 7440-38-2 0.30 U Arsenic P 7440-39-3 Barium 1.4 P 7440-41-7 Beryllium 0.01 U ₽ 7440-43-9 Cadmium 0.05 U P 7440-70-2 Calcium 48.6 B P 7440-47-3 Chromium 1.7 P 7440-48-4 Cobalt 0.07 טן P 0.17 U 7440-50-8 Copper ₽ 10007439-89-6 Iron 730 P 7439-92-1 Lead 0.79 N* P 7439-95-4 Magnesium 41.3 |B |E ₽ 7439-96-5 Manganese 4.1 P 7439-97-6 0.020 U Mercury CV 7440-02-0 Nickel 0.12 U P ĪB B 7440-09-7 Potassium 55.9 P 7782-49-2 Selenium 0.40 U I P 7440-22-4 Silver 0.08 U P 7440-23-5 Sodium 51.4 B P 7440-28-0 Thallium 0.61 U N P IUC. 7440-62-2 Vanadium B 1.4 P 7440-66-6 B PIB Zinc 1.3

Color Before:	BROWN	Clarity Before:		Texture:	COARSE
Color After:	YELLOW	Clarity After:		Artifacts:	
Comments:			 		
_ _					

FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ER-SS-120402

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: S2812

Matrix: (soil/water) WATER Lab Sample ID: S2812-2

Sample wt/vol: 5 (g/ml) ML Lab File ID: S2812-2RA52

Level: (low/med) LOW Date Received: 12/09/02

% Moisture: not dec. _____ Date Analyzed: 12/13/02

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 0 75-71-8-----Dichlorodifluoromethane 5 U 74-87-3-----Chloromethane 5 U 75-01-4-----Vinyl Chloride U 74-83-9-----Bromomethane U U 75-00-3-----Chloroethane 75-69-4-----Trichlorofluoromethane U 75-35-4----1,1-Dichloroethene U 75-15-0-----Carbon disulfide U $76-13-1----1,1,2-trichloro-\overline{1,2,2-triflu}$ U 67-64-1-----Acetone 13 U R 75-09-2-----Methylene Chloride 5 U 156-60-5----trans-1,2-Dichloroethene 5 U 1634-04-4-----Methyl-tert-butyl ether 5 U 75-34-3-----1,1-Dichloroethane 5 U 156-59-2----cis-1,2-Dichloroethene 78-93-3----2-butanone 13 U 67-66-3-----Chloroform 5 5 5 5 U 71-55-6----1,1,1-Trichloroethane U 56-23-5-----Carbon Tetrachloride_ U 71-43-2----Benzene U 107-06-2----1,2-Dichloroethane 5 5 U 79-01-6-----Trichloroethene U 78-87-5----1,2-Dichloropropane 5 U 75-27-4-----Bromodichloromethane 5 U 10061-01-5----cis-1,3-Dichloropropene_ 5 U 108-10-1----4-Methyl-2-pentanone 13 U 5 U 5 U 79-00-5----1,1,2-Trichloroethane 127-18-4-----Tetrachloroethene 5 U 591-78-6----2-hexanone 13 U 124-48-1-----Dibromochloromethane 5 U 106-93-4----1,2-Dibromoethane 5 U FORM I VOA

13

FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: COMPUCHEM

CLIENT SAMPLE NO.

ER-SS-120402

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: S2812

Matrix: (soil/water) WATER Lab Sample ID: S2812-2

Sample wt/vol: 5 (g/ml) ML Lab File ID: S2812-2RA52

Method: 8260B

CONCENTRATION UNITS:

Level: (low/med) LOW Date Received: 12/09/02

% Moisture: not dec. ____ Date Analyzed: 12/13/02

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

108-90-7	CAS NO.	COMPOUND	(ug/L or	ug/Kg) UG/L		Q
	100-41-4 100-42-5 75-25-2 98-82-8 79-34-5 541-73-1 106-46-7 95-50-1 120-82-1 1330-20-7 110-82-7	EthylbenzeneStyreneStyreneIsopropyl Ber1,1,2,2-Tetra1,4-Dichloroh1,2-Dichloroh1,2-Dibromo-31,2,4-TrichlorohXylene (total	nzene achloroethane benzene benzene 3-Chloropropan brobenzene	ne_	555555555555555	ם ם ם ם ם ם ם ם ם ם ם ם ם ם ם ם ם ם ם

FORM I VOA

FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Lab	Name:	COMPUCHEM
עטע	tacilie.	COMPUCATION

Contract: 8260B

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: S2812

Matrix: (soil/water) WATER

Lab Sample ID: S2812-2

Sample wt/vol: 5 (g/ml) ML

Lab File ID: S2812-2RA52

Level: (low/med) LOW

Date Received: 12/09/02

% Moisture: not dec.

Date Analyzed: 12/13/02

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: (uL

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

1. 2. 3. 4. 5. 6. 7. 8. 9 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20.	= ====
3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19.	1
4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19.	-
5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19.	-
7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19.	-
8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19.	
8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19.	_
10. 11. 12. 13. 14. 15. 16. 17. 18. 19.	_ [
10. 11. 12. 13. 14. 15. 16. 17. 18. 19.	-
12. 13. 14. 15. 16. 17. 18. 19.	-
13. 14. 15. 16. 17. 18. 19.	-
14. 15. 16. 17. 18. 19.	
15. 16. 17. 18. 19.	-
16. 17. 18. 19.	_
17. 18. 19.	
18.	_
19.	_
20	-
1 20.	-
1 44.	-
1 22.	-
1 43.	
24.	
25	
26.	_
27. 28.	-
29	-
30.	-
	-

FORM I VOA-TIC

CLIENT SAMPLE NO.

ER-SS-121002

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: S2812

Matrix: (soil/water) WATER Lab Sample ID: S2812-3

Sample wt/vol: 5 (g/ml) ML Lab File ID: S2812-3A59

Level: (low/med) LOW Date Received: 12/11/02

% Moisture: not dec. Date Analyzed: 12/16/02

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Aliquot Volume: _____(u] Soil Extract Volume: ____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L CAS NO. COMPOUND Ω

CAS NO.	COMPOUND	(ug/L OI	ug/kg/	OG/L	Q
75-71-8	Dichlorodifluc	promethane		C.	11
	Chloromethane			5	Ιŭ
	Vinyl Chloride	4		5	0 0 0 0 0 0 0 0 0 0 0
74-83-9	Bromomethane			5	
	Chloroethane				i ii
	Trichlorofluor	comethane		<u></u>	Ü
75-35-4	1,1-Dichloroet	hene		Ę.	i
75-15-0	Carbon disulfi	de		~ [Ü
	1,1,2-trichlor		flu	,	II
67-64-1	Acetone	-,-,		13	Ü
	Methylene Chlo	oride	 i	13	Ĵ
156-60-5	trans-1,2-Dich	loroethene		5	เป็น
1634-04-4	Methyl-tert-bi	tvl ether		<u></u>	U U
75-34-3	1,1-Dichloroet	hane		5	Ū
156-59-2	cis-1,2-Dichlo	proethene		5	Ü
78-93-3	2-butanone				Ū
	Chloroform			5	
71-55-6	1,1,1-Trichlor	oethane		5	เป็น
56-23-5	Carbon Tetrach	loride		5	Ū
71-43-2	Benzene			5	Ü
107-06-2	1,2-Dichloroet	hane		5 5 5 5 5 5	Ū
79-01-6	Trichloroether	ne -		5	Ū
78-87-5	1,2-Dichloropr	opane		5	Ū
75-27-4	Bromodichloron	nethane		5	Ū
10061-01-5	cis-1,3-Dichlo	ropropene		5	Ū
108-10-1	4-Methyl-2-per	itanone		13	
108-88-3	Toluene			3	
10061-02-6	trans-1,3-Dich	loropropene		5	บ
79-00-5	1,1,2-Trichlor	coethane		5	บี
127-18-4	Tetrachloroeth	nene		5	Ū
591-78-6	2-hexanone			13	Ü
124-48-1	Dibromochlorom	nethane		5	Ü
106-93-4	1,2-Dibromoeth	nane		5	Ŭ
	HODA -	1101			.
	FORM I	. VOA			

96-12-8-----1,2-Dibromo-3-Chloropropane 120-82-1----1,2,4-Trichlorobenzene

1330-20-7-----Xylene (total) 79-20-9------Methyl acetate_____

108-87-2-----Methylcyclohexane

110-82-7-----Cyclohexane

CLIENT SAMPLE NO.

U

U

ER-SS-121002 Lab Name: COMPUCHEM Method: 8260B Lab Code: LIBRTY Case No.: SAS No.: SDG No.: S2812 Matrix: (soil/water) WATER Lab Sample ID: S2812-3 Sample wt/vol: 5 (g/ml) ML Lab File ID: S2812-3A59 Level: (low/med) LOW Date Received: 12/11/02 % Moisture: not dec. Date Analyzed: 12/16/02 GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0 Soil Extract Volume: ____ (uL) Soil Aliquot Volume: (u) CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q 108-90-7-----Chlorobenzene 100-41-4-----Ethylbenzene 95-50-1----1,2-Dichlorobenzene

FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Soil Aliquot Volume: _____(uI

ER-SS-121002

Lab Name: COMPUCHEM	(Contract: 8260B	.:
Lab Code: LIBRTY	Case No.:	SAS No.: SDG	No.: S2812
Matrix: (soil/water)	WATER	Lab Sample ID	: S2812-3
Sample wt/vol:	5 (g/ml) ML	Lab File ID:	S2812-3A59
Level: (low/med)	FOM	Date Received	: 12/11/02
% Moisture: not dec.		Date Analyzed	: 12/16/02
GC Column: ZB624	ID: 0.32 (mm)	Dilution Fact	or: 1.0

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

Soil Extract Volume: (uL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
		= ======	==========	====
1			·	
2.				
·				
7,				
5				
6				
7				
8.				
9				
10.				
± ± +				
16.				
13.				
14.				
15.				
16				
17.				
18.				
19.		- 		
20.		_ 		
21.		-		
22				
23.		-		
24.				
25.				
26		_		
27.		_		
27		_		
28.				
29.				
30.			-	

FORM I VOA-TIC

CLIENT SAMPLE NO.

TRIPBLANK

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: S2812

Matrix: (soil/water) WATER Lab Sample ID: S28212-1

Sample wt/vol: 5 (g/ml) ML Lab File ID: S2812-1RA59

Level: (low/med) LOW Date Received: 12/04/02

% Moisture: not dec. _____ Date Analyzed: 12/22/02

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(ul

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 0 75-71-8-----Dichlorodifluoromethane UL 74-87-3-----Chloromethane 75-01-4-----Vinyl Chloride 74-83-9-----Bromomethane 75-00-3-----Chloroethane 75-69-4----Trichlorofluoromethane 75-35-4----1,1-Dichloroethene 75-15-0-----Carbon disulfide $76-13-1----1,1,2-trichloro-\overline{1,2,2-triflu}$ 67-64-1-----Acetone 13 U 75-09-2-----Methylene Chloride 5 5 5 5 13 U 156-60-5-----trans-1,2-Dichloroethene U 1634-04-4-----Methyl-tert-butyl ether U 75-34-3-----1,1-Dichloroethane U 156-59-2----cis-1,2-Dichloroethene U 78-93-3-----2-butanone U 67-66-3------Chloroform 555555555 U 71-55-6----1,1,1-Trichloroethane U 56-23-5-----Carbon Tetrachloride U 71-43-2----Benzene U 107-06-2----1, 2-Dichloroethane U 79-01-6-----Trichloroethene U 78-87-5-----1,2-Dichloropropane
75-27-4------Bromodichloromethane U U 10061-01-5----cis-1,3-Dichloropropene U 108-10-1-----4-Methyl-2-pentanone 13 U 108-88-3-----Toluene U 5 5 5 5 10061-02-6----trans-1,3-Dichloropropene U 79-00-5-----1,1,2-Trichloroethane U 127-18-4-----Tetrachloroethene U 591-78-6----2-hexanone 13 U 124-48-1-----Dibromochloromethane 5 U 5 U 106-93-4-----1,2-Dibromoethane FORM I VOA

41.65

CLIENT SAMPLE NO.

TRIPBLANK Lab Name: COMPUCHEM Method: 8260B Lab Code: LIBRTY Case No.: SAS No.: SDG No.: S2812 Matrix: (soil/water) WATER Lab Sample ID: S28212-1 Sample wt/vol: 5 (g/ml) ML Lab File ID: S2812-1RA59 Level: (low/med) LOW Date Received: 12/04/02 % Moisture: not dec. Date Analyzed: 12/22/02 GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0 Soil Extract Volume: (uL) Soil Aliquot Volume: _____(u) CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 0 108-90-7-----Chlorobenzene____ uL 5 U 96-12-8-----1,2-Dibromo-3-Chloropropane 120-82-1-----1,2,4-Trichlorobenzene 5 U

5 U

FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: COMPLICHEM

CLIENT SAMPLE NO.

TRIPBLANK

 	 · ·	concract.	02.000	1

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: S2812

Contract: 8260B

Matrix: (soil/water) WATER Lab Sample ID: S28212-1

Sample wt/vol: 5 (g/ml) ML Lab File ID: S2812-1RA59

Level: (low/med) LOW Date Received: 12/04/02

% Moisture: not dec. ____ Date Analyzed: 12/22/02

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(ul

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

مارائع

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	LABORATORY ARTIFACT	14.91	6.45	
2			0.12	
٥٠				
4 . 5 .		_ [.
6.		_		-
7.		-		-
8		-		-
J.		_		-
0.				
12.				
4		_		
5.		- 		-
.6.		-		·
7.		-		·
8.		_ []		·
.9				
0				
2.		_		.
3		-		.
4		-		·]
15.		-		·
6		-		
7.				
8				
0.				
·		_		1

FORM I VOA-TIC

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM Method: 8260B TRIPBLANK2

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: S2812

Matrix: (soil/water) WATER Lab Sample ID: S2812-4

Sample wt/vol: 5 (q/ml) ML Lab File ID: S2812-4A59

Level: (low/med) LOW Date Received: 12/11/02

% Moisture: not dec. _____ Date Analyzed: 12/16/02

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uI

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 0 75-71-8-----Dichlorodifluoromethane 5 | U 74-87-3-----Chloromethane 5555555 U 75-01-4-----Vinyl Chloride U 74-83-9-----Bromomethane U 75-00-3-----Chloroethane U 75-69-4-----Trichlorofluoromethane U 75-35-4----1,1-Dichloroethene U 75-15-0-----Carbon disulfide U 76-13-1----1,1,2-trichloro-1,2,2-triflu 5 U 67-64-1-----Acetone 13 U 75-09-2-----Methylene Chloride 2 J 156-60-5----trans-1,2-Dichloroethene 5 U 1634-04-4-----Methyl-tert-butyl ether 5 U 75-34-3-----1,1-Dichloroethane 5 U 156-59-2----cis-1,2-Dichloroethene 5 U 78-93-3----2-butanone 13 U 67-66-3-----Chloroform 5 U 71-55-6-----1,1,1-Trichloroethane 5 U 56-23-5-----Carbon Tetrachloride 5 U 71-43-2-----Benzene 5 U 107-06-2----1,2-Dichloroethane U 5 5 5 79-01-6-----Trichloroethene U 78-87-5-----1,2-Dichloropropane ΙU 75-27-4-----Bromodichloromethane 5 U 10061-01-5----cis-1,3-Dichloropropene 5 U 108-10-1-----4-Methyl-2-pentanone 13 U

FORM I VOA

108-88-3-----Toluene 10061-02-6-----trans-1,3-Dichloropropene

79-00-5----1,1,2-Trichloroethane

124-48-1-----Dibromochloromethane

127-18-4-----Tetrachloroethene

106-93-4-----1,2-Dibromoethane

591-78-6----2-hexanone

4 J 5 U

5 U

5 | U

13 U

5 U

5 U

CLIENT SAMPLE NO.

TRIPBLANK2 Lab Name: COMPUCHEM Method: 8260B Lab Code: LIBRTY Case No.: SAS No.: SDG No.: S2812 Matrix: (soil/water) WATER Lab Sample ID: S2812-4 Sample wt/vol: 5 (g/ml) MLLab File ID: S2812-4A59 Level: (low/med) LOW Date Received: 12/11/02 % Moisture: not dec. Date Analyzed: 12/16/02 GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0 Soil Extract Volume: (uL) Soil Aliquot Volume: ____(ul CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q 108-90-7-----Chlorobenzene U 100-41-4-----Ethylbenzene 55555555555555 U 100-42-5----Styrene U 75-25-2-----Bromoform U U U U U U U U U U U U

FORM 1

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

TRIPBLANK2

Lab	Name:	COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: S2812

Matrix: (soil/water) WATER

Lab Sample ID: S2812-4

Sample wt/vol:

5

LOW

Lab File ID:

S2812-4A59

Level:

(g/ml) ML

Date Received: 12/11/02

(low/med)

% Moisture: not dec.

Date Analyzed: 12/16/02

GC Column: ZB624

ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: _____(ul

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1			=======================================	=====
4.				
3.				
5.				
6				
7				·
[8.				
9				
10		ļ 		·
12				
13.				
1 17.				
15. 16.				
} 1 /•				
18.				
19.				
21.				
22.				
1 23.				
24.				
26.				
27.			 -	
1 28.				
29.				
30.				
I ————————————————————————————————————			l 	

FORM I VOA-TIC

CLIENT SAMPLE NO.

ER-SS-120402

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: S2812

Matrix: (soil/water) WATER

CONCENTRATION UNITS:

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: S2812-2B64

Level: (low/med) LOW

Date Received: 12/09/02

Lab Sample ID: S2812-2

% Moisture: _____ decanted: (Y/N)___

Date Extracted:12/09/02

Concentrated Extract Volume: 1000(uL)

Injection Volume: 1.0(uL)

Date Analyzed: 12/11/02

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.		L or ug/Kg) UG/I		Q
100-52-7	Benzaldehyde		10	ט
108-95-2	Phenol		10	ע
111-44-4	Bis(2-chloroethyl)ethe	er	10	Ū
95-57-8	2-Chlorophenol		10	Ū
95 - 48-7	2-Methvlphenol		10	U
108-60-1	2,2'-oxvbis(1- <u>Chlorop</u>	ropane)	10	ט
1 98-86-2	Acetophenone	- '	10	ן ט
106-44-5	4-Methylphenol		10	ן מ
621 - 64-7	N-Nitroso-di-N-propyl;	amine	10	Ū
67-72-1	Hexachloroethane		10	U
98-95-3	Nitrobenzene		10	Ü
78-59-1	Isophorone		10	Ū
88-75-5	2-Nitrophenol		10	Ū
105 - 67-9	2.4-Dimethylphenol		10	Ū
	Bis(2-chloroethoxy)met	hane	10	Ū
120-83-2	2.4-Dichlorophenol		10	lŭ l
91-20-3	Naphthalene		10	lŭ l
106-47-8	4-Chloroaniline		10	lŭ l
87 - 68-3	Hexachlorobutadiene		10	Ü
105-60-2 -	Caprolactam		10	lŭ l
59-50-7	4-Chloro-3-methylpheno	5I	10	lŭ l
91-57-6	2-Methvlnaphthalene		10	Ü
//-4/-4	Hexachlorocyclopentadi	ene	10	Ŭ
88-06-2	2.4.6-Trichlorophenol		10	ا تا
95-95-4	2,4,5-Trichlorophenol		10	lŭ l
92-52-4	1.1'-Biphenvl -		10	lŭ l
91-58-7	2-Chloronaphthalene		10	lü l
88-74-4	2-Nitroaniline		20	lŭ l
131-11-3	Dimethylphthalate		10	lü l
606-20-2 	2,6-Dinitrotoluene		10	Ü
208-96-8 -	Acenaphthylene		10	l u
99-09-2	3-Nitroaniline		20	ט
83-32-9 -	Acenaphthene		10	lu l
l <u></u>	•		10	
	FORM I SV	I		8270
	10101 1 00			8270

ER-SS-120402

Lab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: S2812

Matrix: (soil/water) WATER Lab Sample ID: S2812-2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2812-2B64

Level: (low/med) LOW Date Received: 12/09/02

% Moisture: ____ decanted: (Y/N) Date Extracted:12/09/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/11/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ CONCENTRATION UNITS:

CA	S NO.	COMPOUND	(ug/L or ug/		Q	
10 12 13 84 70 86 10 53 86 10 11 98 78 51 85 84 20 20 53 19 53 19 53 19 53 19 53 19 19 19 19 19 19 19 19 19 19 19 19 19	0-02-7 1-14-2 2-64-9 05-72-3 05-72-3 0-01-6 4-52-1 30-6 1-55-3 8-74-1 12-24-974-8	-Diethylphthalate -4-Chlorophenyl-phe-1uorene -4-Nitroaniline -4,6-Dinitro-2-met-1uorene -4,6-Dinitro-2-met-1uorene -4-Bromophenyl-phe-1uorene -Atrazine -Pentachlorophenol-Phenanthrene -Anthracene -Carbazole -Di-n-butylphthala-Fluoranthene -Pyrene -Butylbenzylphthala-3,3'-Dichlorobenz-bis(2-ethylhexyl) -Benzo(a) anthracene -Chrysene -Di-n-octylphthala-Benzo(b) fluoranth-1uoranthene -Pyrene -Di-n-octylphthala-1uoranch-1uoranch-1uoranthene -Di-n-octylphthala-1uoranch-1uoranch-1uoranch-1uoranth-1uoranth-1uoranch-1	ate	50 20 10 10 10 20 20 10 10 10 10 10 10 10 10 10 10 10 10 10		4/2/05
		FORM I SV			82	270C

FORM 1 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ER-SS-120402

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: S2812

Matrix: (soil/water) WATER

Lab Sample ID: S2812-2

Sample wt/vol:

1000 (q/mL) ML

LOW

Lab File ID: S2812-2B64

Level:

(low/med)

Date Received: 12/09/02

% Moisture: _____ decanted: (Y/N)___

Date Extracted:12/09/02

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 12/11/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: ____

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1		= ======	=======================================	====
2.		— ——— i		·
3.		-		
4.				
5.				
6.		— I ——— i		
7.		_		
8.		_		
9.		_		
10.		_		
11.				
12.				
13.				
14.				
15.				
16.				
17.		_		
18		_		
19		_		
20				
21				
22.				
23.		_		
24.				
25.				
26.		_		
4/.		-		
28.		-		
49.		- 		
30		- 		
	· · · · · · · · · · · · · · · · · · ·	-		

CLIENT SAMPLE NO.

ER-SS-121002 Lab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: S2812

Matrix: (soil/water) WATER Lab Sample ID: S2812-3

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2812-3A64

Level: (low/med) LOW Date Received: 12/11/02

% Moisture: ____ decanted: (Y/N)___ Date Extracted:12/12/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/15/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

83-32-9-----Acenaphthene

CAS NO. COMPOUND (ug/L or ug/Kq) UG/L0 100-52-7-----Benzaldehyde____ U 10 108-95-2----Phenol 10 U 111-44-4-----Bis(2-chloroethyl)ether 10 U 95-57-8----2-Chlorophenol 95-48-7----2-Methylphenol 10 U 10 U 108-60-1----2,2'-oxybis(1-Chloropropane) 10 U 98-86-2-----Acetophenone 10 U $106-44-5----4-Methylphen\overline{ol}$ 10 U 621-64-7----N-Nitroso-di-N-propylamine 10 U 67-72-1------Hexachloroethane 10 U 98-95-3-----Nitrobenzene 10 U 78-59-1------Isophorone 10 U 88-75-5----2-Nitrophenol 10 U 105-67-9----2,4-Dimethylphenol 10 U 111-91-1-----Bis(2-chloroethoxy)methane 10 U 120-83-2----2,4-Dichlorophenoi_____ 10 U 91-20-3-----Naphthalene 10 U 106-47-8----4-Chloroaniline 10 U 87-68-3-----Hexachlorobutadiene 10 U 105-60-2-----Caprolactam 2 J 59-50-7----4-Chloro-3-methylphenol 10 U 91-57-6-----2-Methylnaphthalene 77-47-4-----Hexachlorocyclopentadiene 10 U 10 U 88-06-2----2,4,6-Trichlorophenol_ U 10 U 10 U 10 10 U 88-74-4----2-Nitroaniline 20 U 131-11-3-----Dimethylphthalate U 10 606-20-2----2,6-Dinitrotoluene 10 U 208-96-8-----Acenaphthylene_ 99-09-2----3-Nitroaniline____ 10 U 20 U

FORM I SV

CONCENTRATION UNITS:

<u>8</u>270C

CLIENT SAMPLE NO.

ER-SS-121002

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.:

SDG No.: S2812

Matrix: (soil/water) WATER

Lab Sample ID: S2812-3

Sample wt/vol:

1000 (g/mL) ML

Lab File ID:

S2812-3A64

Level: (low/med)

LOW

Date Received: 12/11/02

% Moisture: ____ decanted: (Y/N)

Concentrated Extract Volume: 1000(uL)

Date Extracted:12/12/02

Injection Volume: 1.0(uL)

Date Analyzed: 12/15/02 Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION (ug/L or ug/Kg)		Q	
51-28-5	2,4-Dinitroph	nenol	50	U	-
100-02-7	4-Nitrophenol		20	Ū	- 1
121-14-2	2,4-Dinitroto	luene	10	U	- 1
132-64-9	Dibenzofuran		10	U	
84-66-2	Diethylphthal	ate	10	U	
7005-72-3	4-Chloropheny	/l-phenylether	10	U	
86-73-7	Fluorene		10	U	
100-01-6	4-Nitroanilin	ne	20	U	
534-52-1	4,6-Dinitro-2	2-methylphenol	20	U	
86-30-6	N-Nitrosodiph	nenylamine_(1)	10	U	
101-55-3	4-Bromophenyl	-phenylether	10	U	
118-/4-1	Hexachloroben	izene	10	U	
1912-24-9			10	U R	_

4/2/2

Ũ

U

U

U U

U

U

U

U

J

U

U

U

U

U

U

U

U

U

10

10

10

10

10 10

10

10

10

2

10

10

10

10

10

10

10

10

10

129-00-0-----Pyrene

85-68-7-----Butylbenzylphthalate 91-94-1-----3,3'-Dichlorobenzidine 117-81-7-----bis(2-ethylhexyl)Phthalate_

85-01-8------Phenanthrene

56-55-3-----Benzo(a)anthracene__ 218-01-9-----Chrysene

117-84-0-----Di-n-octylphthalate 205-99-2----Benzo(b) fluoranthene 207-08-9-----Benzo(k)fluoranthene

50-32-8-----Benzo(a)pyrene_

191-24-2----Benzo(g,h,i)perylene

(1) - Cannot be separated from Diphenylamine FORM I SV

87-86-5-----Pentachlorophenol

8270C

FORM 1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ER-SS-121002

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.:

SDG No.: S2812

Matrix: (soil/water) WATER

Lab Sample ID: S2812-3

Sample wt/vol:

1000 (g/mL) ML Lab File ID: S2812-3A64

Level: (low/med) LOW

Date Received: 12/11/02

% Moisture: ____ decanted: (Y/N)___

Date Extracted:12/12/02

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 12/15/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 5

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 2. 3. 4. 5.	UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN	21.10 23.70 24.07 24.12 24.92	6 7 8 9 7	J 7 J J J J
7. 8. 9. 10. 11.				
14. 15. 16. 17.				
19. 20. 21. 22.				
24. 25. 26. 27. 28.				
30	FORM T SV-TTC			

ER-SS-120402

Lab Name: COMPUCHEM Contract: 8081A Lab Code: LIBRTY Case No.: SAS No.: SDG No.: S2812 Matrix: (soil/water) WATER Lab Sample ID: S2812-2 Sample wt/vol: 1000 (g/mL) ML Lab File ID: decanted: (Y/N) % Moisture: Date Received: 12/09/02 Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:12/09/02

5000 (uL)

Date Analyzed: 12/11/02 Injection Volume: 2.0(uL) Dilution Factor: 1.0

Concentrated Extract Volume:

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

309-00-2Aldrin	0.050	
319-84-6alpha-BHC	0.050	
319-85-7beta-BHC	0.030	Ü
319-86-8delta-BHC		-
58-89-9gamma-BHC (Lindane)	0.050	-
72-54-84, 4'-DDD	0.050	_
72-55-94,4'-DDE	0.20	Ŭ
50-29-34,4'-DDT	0.10	U
60-57-1Dieldrin	0.30	1 -
959-98-8Endosulfan I	0.10	_
33213-65-9Endosulfan II	0.10	
1031-07-8Endosulfan sulfate	0.20	l
72-20-8Endrin	0.20	U
7421-93-4Endrin Aldehyde	0.20	U
76-44-8Heptachlor	0.20	U
1024-57-3Heptachlor Epoxide	0.050	
72-43-5Methoxychlor	0.050	_
8001-35-2Toxaphene	0.50	U
12674-11-2Aroclor-1016	5.0	
11104-28-2Aroclor-1221	0.50	
11141-16-5Aroclor-1232	1.0	_
53469-21-9Aroclor-1242	0.50	_
12672 20 6 America 1242	0.50	U
12672-29-6Aroclor-1248	0.50	_
11097-69-1Aroclor-1254	0.50	U
11096-82-5Aroclor-1260	0.50	
53494-70-5Endrin Ketone	0.50	
5103-74-2gamma-Chlordane	0.050	U
5103-71-9alpha-Chlordane	0.10	U

FORM I PEST

Lab Name: COMPUCHEM Contract: 8081A ER-SS-121002

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: S2812

Matrix: (soil/water) WATER Lab Sample ID: S2812-3

Sample wt/vol: 1000 (g/mL) ML Lab File ID:

% Moisture: ____ decanted: (Y/N) ___ Date Received: 12/11/02

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:12/13/02

Concentrated Extract Volume: 5000(uL) Date Analyzed: 12/14/02

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.0 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

309-00-2	Aldrin	0.050	TT
319-84-6		0.050	•
319-85-7	beta-BHC	0.10	
319-86-8	delta-BHC	0.050	
58-89-9	gamma-BHC (Lindane)	0.050	
72-54-8	4.4'-DDD	0.20	
72-55-9	4.4'-DDE	0.20 0.10	-
50-29-3	4 4'-DDT	0.30	
60-57-1			
	Endosulfan I	0.10	
	Endosulfan II	0.10	
1031-07-8	Endosulfan sulfate	0.20	
72-20-8	Fndrin		U
7421-93-4	Endrin Aldehyde		U
76-44-8	Heptachlor		U
1024-57-3	Heptachlor Epoxide		U
70-43-5	Methoxychlor	0.050	_
8001-35-2	Methoxychior	0.50	
12674 11 2	Aroclor-1016	 (U
11104 20 2	Aroclor-1016 Aroclor-1221		U
11104-20-2	AIOCIOI-1221	1.0	
11141-10-5	Aroclor-1232		U
12672 20 6	Aroclor-1242	0.50	
126/2-29-6	Aroclor-1248	0.50	U
1109/-69-1	Aroclor-1254	0.50	U
11096-82-5	Aroclor-1260	0.50	U
53494-70-5	Endrin Ketone	0.50	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.10	U

INORGANIC ANALYSES DATA SHEET

							EPA SAM	
b Name: <u>COM</u>	DUCHEM	Canta					ER-SS-	120402
		Conti		_			 -	
b Code: <u>LIB</u>	RTY Case N	o.: Si	AS No.:		SDG N	o.:	<u>52812</u>	
trix (soil/w	water): WATER	·	Lab Sample I	D:	S2812	-2		
rel (low/med	i): LOW		Date Receive	d:	12/9/	02		_
Solids: 0.0								_
								
	Concent	ration Units (ug/	L or mg/kg dry	weig	jht):	UG/	L	
	<u></u>			1		Т	1	
	CAS No.	Analyte	Concentration	C	Ω	М		
	7429-90-5	Aluminum	21.8	U	<u> </u>	P	<u>.</u> 	
	7440-36-0	Antimony	· · · · · · · · · · · · · · · · · · · ·	B	 	l P		
	7440-38-2	Arsenic	2.5	σ	İ	 P	i	
	7440-39-3	Barium	0.60	jΒ	<u> </u>	P	i	
	7440-41-7	Beryllium	0.10	U		P	İ	
	7440-43-9	Cadmium	0.40	U		P	İ	
	7440-70-2	Calcium	50.6	В		P	İ	
	7440-47-3	Chromium	1.2	В		P	j	
	7440-48-4	Cobalt	0.60	U		P	Ì	
	7440-50-8	Copper	1.4	U		P	Ī	
	7439-89~6	Iron	17.8	В		P	Ī	
	7439-92-1	Lead	2.3	ט		P	Ī	
	7439-95-4	Magnesium	66.0	В		P	Ī	
	7439-96-5	Manganese	0.37	В		P	Ī	
	7439-97-6	Mercury	0.10	U		CV	Ī	
	7440-02-0	Nickel	1.0	U		P	Ī	
	7440-09-7	Potassium	118	ĮΨ		P	Ì	
	7782-49-2	Selenium	3.3	Ū		P	Ī	
	7440-22-4	Silver	0.70	U		P]	
	7440-23-5	Sodium	<u> </u>	U		P	lul	
	7440-28-0		5.1	U		P	1	i
	7440-62-2	Vanadium	0.70	ט		P]	2/26/3
	7440-66-6	Zinc	10.8	В		P	1	110

INORGANIC ANALYSES DATA SHEET

						ı		EPA SAMPLE NO.
Lab Name:	COMPITCES	M	Contr	each.		ĺ		ER-SS-121002
Lab Code:		Case No.:		AS No.:		SDG N	 o.:	S2812
Matrix (so	il/water)	- : WATER		Lab Sample I	n.	S2812		
				_				
Level (low	/med):	LOW		Date Receive	d:	12/11	/02	
% Solids:	0.0	_						
		Concentrat	ion Units (ug/	L or mg/kg dry	weig	jht):	UG/	<u>.</u>
		CAS No.	Analyte	Concentration	С	Ω	М	
		7429-90-5	Aluminum	21.8	Ū		P	<u>.</u>
		7440-36-0	Antimony	5.0	В		P	İ
		7440-38-2	Arsenic	2.5	<u>יטן</u>		P	1
		7440-39-3	Barium	0.43	В		P	Ì
		7440-41-7	Beryllium	0.10	U		P	Ī
		7440-43-9	Cadmium	0.40	U		P	_
		7440-70-2	Calcium	19.0	В		P	Ī
		7440-47-3	Chromium	0.95	B	l	P	Ī
		7440-48-4	Cobalt	0.60	טן		P	Ī
		7440-50-8	Copper	1.4	ט		P	1
		7439-89-6	Iron	13.7	U		P	
		7439-92-1	Lead	2.3	ן ט		P	
		7439-95-4	Magnesium		В		P	
		7439-96-5	Manganese		B		P	
		7439-97-6	Mercury	0.10	ן טן	ļ	cv	
		7440-02-0	Nickel	1.0	ן ט		P	
		7440-09-7	Potassium		ן ט		P	[
		7782-49-2	Selenium		ן ט		P	
		7440-22-4	Silver		U		P	
		7440-23-5	Sodium		U			luu
		7440-28-0	Thallium	5.1			P	[
		7440-62-2	Vanadium		U		P	
		7440-66-6	Zinc	4.7	B		P	1
								3) 261
Color Be	fore: COL	ORLESS Cla	arity Before:	CLEAR	Te	xture	•	
							•	
Color Af	ter: COL	ORLESS C1	arity After:	CLEAR	Ar	tifac	ts:	
Comments								
	•	····-		 				
							<u>-</u>	

CLIENT SAMPLE NO.

ER-SS-010803

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: T2812

Matrix: (soil/water) WATER

Lab Sample ID: T2812-9

Sample wt/vol: 5 (g/ml) ML

Lab File ID: T2812-9RA52

Level: (low/med) LOW

Date Received: 01/09/03

% Moisture: not dec.

Date Analyzed: 01/16/03

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

CAS NO.

Soil Aliquot Volume: ____(uL

CONCENTRATION UNITS: COMPOUND

(ug/L or ug/Kg) UG/L

Q

75-71-8Dichloro	odifluoromethane 5	u l
74-87-3Chlorome	ethane 5	Ū
75-01-4Vinyl Ch	oloride 5	ับ l
74-83-9Bromomet	:hane 5	บ
75-00-3Chloroet	hane 5	บ
75-69-4Trichlor	ofluoromethane 5	u l
75-35-41,1-Dich	loroethene 5	บ
75-15-0Carbon d		บ
76-13-11,1,2-tr		บ
67-64-1Acetone		υK
75-09-2Methylen	ne Chloride 5	υ [
156-60-5trans-1,	2-Dichloroethene 5	บ
1634-04-4Methyl-t	cert-butyl ether5	
75-34-31,1-Dich	loroethane 5	บ
156-59-2cis-1,2-	Dichloroethene 5	ប
78-93-32-butanc	one 13	บ
67-66-3Chlorofc	orm	ប
71-55-61,1,1-Tr	cichloroethane	ប
56-23-5Carbon T	Cetrachloride 5	บ
71-43-2Benzene	5	υ l
107-06-21,2-Dich		ט
79-01-6Trichlor	coethene	ט
78-87-51,2-Dich	lloropropane 5	บ 📗
75-27-4Bromodic	hloromethane 5	บ
10061-01-5cis-1,3-	Dichloropropene 5	บ
108-10-14-Methyl	2-pentanone 13	U l
108-88-3Toluene_	0.3	JB
10061-02-6trans-1,		
79-00-51,1,2-Tr	richloroethane 5	
127-18-4Tetrachl		
591-78-62-hexano		
124-48-1Dibromoc	hloromethane5	ט
106-93-41,2-Dibr	omoethane5	ט
	FORM I VOA	

Lab Name: COMPUCHEM

Matrix: (soil/water) WATER

CLIENT SAMPLE NO.

ER-SS-010803 Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812 Lab Sample ID: T2812-9

Sample wt/vol: 5 (q/ml) ML Lab File ID: T2812-9RA52

CONCENTRATION UNITS:

Method: 8260B

Level: (low/med) LOW Date Received: 01/09/03

% Moisture: not dec. Date Analyzed: 01/16/03

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Aliquot Volume: ____(uL Soil Extract Volume: ____(uL)

CAS NO.	COMPOUND	(ug/L or	ug/Kg) UG/L	Q
100-41-4 100-42-5 75-25-2 98-82-8 79-34-5 541-73-1 106-46-7 95-50-1 96-12-8 120-82-1 1330-20-7 79-20-9 110-82-7	ChlorobenzeneEthylbenzeneStyreneBromoformIsopropyl Ber1,1,2,2-Tetra1,3-Dichlorok1,4-Dichlorok1,2-Dichlorok1,2-Dibromo-31,2,4-TrichlorokXylene (totalMethyl acetatCyclohexaneMethylcyclohe	nzene achloroethane benzene benzene benzene 3-Chloropropar brobenzene		מממממממממממ
· 				 l l

CLIENT SAMPLE NO.

ER-SS-010903

Method: 8260B Lab Name: COMPUCHEM SDG No.: T2812 SAS No.: Lab Code: LIBRTY Case No.: Lab Sample ID: T2812-14 Matrix: (soil/water) WATER (q/ml) ML Lab File ID: T2812-14A52 Sample wt/vol: 5 Date Received: 01/10/03 Level: (low/med) LOW % Moisture: not dec. Date Analyzed: 01/16/03 GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL

CAS NO. COMPOUND CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L Q

75-71-8-----Dichlorodifluoromethane 5 U 74-87-3-----Chloromethane 555555 U 75-01-4-----Vinyl Chloride U 74-83-9-----Bromomethane U 75-00-3-----Chloroethane ΙU 75-69-4-----Trichlorofluoromethane 75-35-4----1,1-Dichloroethene ΙU 75-15-0-----Carbon disulfide 5 76-13-1----1,1,2-trichloro-1,2,2-triflu ΙU R 67-64-1------Acetone 13 U 75-09-2-----Methylene Chloride lυ 156-60-5----trans-1,2-Dichloroethene 1634-04-4-----Methyl-tert-butyl ether 5 U 75-34-3-----1,1-Dichloroethane 5 U 156-59-2----cis-1,2-Dichloroethene_ U 78-93-3----2-butanone 13 U 67-66-3-----Chloroform 5 U 71-55-6----1,1,1-Trichloroethane 5 U 56-23-5-----Carbon Tetrachloride_ 5 U 71-43-2-----Benzene 5 U 107-06-2----1,2-Dichloroethane 5 U 79-01-6-----Trichloroethene 5 U 78-87-5-----1,2-Dichloropropane U 75-27-4-----Bromodichloromethane 5 U 10061-01-5----cis-1,3-Dichloropropene 5 U 108-10-1----4-Methyl-2-pentanone 13 U. 108-88-3-----Toluene 10061-02-6-----trans-1,3-Dichloropropene 79-00-5-----1,1,2-Trichloroethane 0.3 JΒ 5 U 5 U 127-18-4-----Tetrachloroethene 5 U 591-78-6----2-hexanone 13 U 124-48-1-----Dibromochloromethane 5 U 106-93-4-----1,2-Dibromoethane 5 U

Lab Name: COMPUCHEM

CLIENT SAMPLE NO.

ER-SS-010903 Method: 8260B Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812 Matrix: (soil/water) WATER Lab Sample ID: T2812-14

CONCENTRATION UNITS:

Sample wt/vol: 5 (g/ml) ML Lab File ID: T2812-14A52 Level: (low/med) LOW Date Received: 01/10/03 % Moisture: not dec. Date Analyzed: 01/16/03

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Aliquot Volume: ____(uL Soil Extract Volume:____(uL)

CAS NO. (ug/L or ug/Kg) UG/L COMPOUND Q 108-90-7-----Chlorobenzene 5 U 100-41-4-----Ethylbenzene 100-42-5-----Styrene 75-25-2-----Bromoform 98-82-8-----Isopropyl Benzene 79-34-5-----1,1,2,2-Tetrachloroethane 541-73-1-----1,3-Dichlorobenzene
106-46-7-----1,4-Dichlorobenzene
95-50-1-----1,2-Dichlorobenzene
96-12-8------1,2-Dibromo-3-Chloropropane
120-82-1-----1,2,4-Trichlorobenzene 1330-20-7-----Xylene (total) 79-20-9-----Methyl acetate 5 U U 110-82-7-----Cyclohexane 5 U 108-87-2-----Methylcyclohexane 5 U

CLIENT SAMPLE NO.

GW-MW01

Lab Name: COMPUCHEM Method: 8260B Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812 Matrix: (soil/water) WATER Lab Sample ID: T2812-1 Sample wt/vol: $5 \qquad (q/ml) ML$ Lab File ID: T2812-1RA52 (low/med) Date Received: 01/08/03 Level: LOW % Moisture: not dec. Date Analyzed: 01/14/03 GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 75-71-8-----Dichlorodifluoromethane 5 U 74-87-3-----Chloromethane 75-01-4-----Vinyl Chloride_ 74-83-9-----Bromomethane 75-00-3-----Chloroethane 75-69-4-----Trichlorofluoromethane 75-35-4-----1,1-Dichloroethene 75-15-0-----Carbon disulfide 5 U 76-13-1----1,1,2-trichloro-1,2,2-triflu 5 | U 67-64-1-----Acetone 13 U 75-09-2-----Methylene Chloride 5 U 156-60-5----trans-1,2-Dichloroethene 5 U 1634-04-4----Methyl-tert-butyl ether 5 U 75-34-3----1,1-Dichloroethane 5 U 156-59-2----cis-1,2-Dichloroethene 5 U 78-93-3----2-butanone 13 U 67-66-3-----Chloroform 71-55-6-----1,1,1-Trichloroethane 56-23-5-----Carbon Tetrachloride 71-43-2----Benzene 107-06-2----1,2-Dichloroethane 79-01-6-----Trichloroethene 78-87-5-----1,2-Dichloropropane 75-27-4-----Bromodichloromethane 10061-01-5----cis-1,3-Dichloropropene_ 5 U 108-10-1----4-Methyl-2-pentanone 13 U 108-88-3------Toluene 10061-02-6-----trans-1,3-Dichloropropene 79-00-5-----1,1,2-Trichloroethane 0.5 JB 5 | U 5 U 127-18-4-----Tetrachloroethene 5 U 591-78-6----2-hexanone 13 | U 124-48-1-----Dibromochloromethane 5 U 5 U 106-93-4----1,2-Dibromoethane

Lab Name: COMPUCHEM

Sample wt/vol:

CLIENT SAMPLE NO.

GW-MW01 Method: 8260B Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812 Matrix: (soil/water) WATER Lab Sample ID: T2812-1 5 (q/ml) ML Lab File ID: T2812-1RA52 Level: (low/med) LOW Date Received: 01/08/03

CONCENTRATION UNITS:

% Moisture: not dec. Date Analyzed: 01/14/03 Dilution Factor: 1.0 GC Column: EQUITY624 ID: 0.53 (mm)

Soil Extract Volume: ____(uL) Soil Aliquot Volume: (uL

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 108-90-7-----Chlorobenzene 5 U 100-41-4-----Ethylbenzene 5 U 100-42-5-----Styrene 5 U 5 U 75-25-2-----Bromoform 98-82-8-----Isopropyl Benzene
79-34-5-----1,1,2,2-Tetrachloroethane
541-73-1-----1,3-Dichlorobenzene 106-46-7-----1,4-Dichlorobenzene 95-50-1-----1,2-Dichlorobenzene 96-12-8-----1,2-Dibromo-3-Chloropropane 120-82-1-----1,2,4-Trichlorobenzene

GW-MW02

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812

Matrix: (soil/water) WATER Lab Sample ID: T2812-2

Sample wt/vol: 5 (g/ml) ML Lab File ID: T2812-2RA52

Level: (low/med) LOW Date Received: 01/08/03

% Moisture: not dec. Date Analyzed: 01/14/03

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: (uL

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or uq/Kq) UG/L 75-71-8-----Dichlorodifluoromethane 5 | U 74-87-3-----Chloromethane 5 5 5 5 5 IJ 75-01-4-------Vinyl Chloride 74-83-9------Bromomethane U U 75-00-3-----Chloroethane U 75-69-4-----Trichlorofluoromethane 5 U 75-35-4-----1,1-Dichloroethene 5 U 75-15-0-----Carbon disulfide 5 U 76-13-1-----1,1,2-trichloro-1,2,2-triflu 5 U 67-64-1-----Acetone R 13 U 75-09-2-----Methylene Chloride 5 U 156-60-5----trans-1,2-Dichloroethene 5 U 1634-04-4----Methyl-tert-butyl ether 5 U 75-34-3-----1,1-Dichloroethane 5 U 156-59-2----cis-1,2-Dichloroethene 5 U 78-93-3-----2-butanone 13 U 67-66-3-----Chloroform 71-55-6----1,1,1-Trichloroethane 56-23-5-----Carbon Tetrachloride 71-43-2-----Benzene 107-06-2----1,2-Dichloroethane 79-01-6-----Trichloroethene 78-87-5-----1,2-Dichloropropane 75-27-4-----Bromodichloromethane 10061-01-5----cis-1,3-Dichloropropene 108-10-1------4-Methyl-2-pentanone__ 108-88-3-----Toluene 0.4 JB 10061-02-6----trans-1,3-Dichloropropene 5 U 79-00-5-----1,1,2-Trichloroethane 5 U 127-18-4-----Tetrachloroethene 5 U 591-78-6----2-hexanone 13 U 124-48-1-----Dibromochloromethane 106-93-4-----1,2-Dibromoethane 5 | U 5 U FORM I VOA

CLIENT SAMPLE NO.

1.ah N=	ame: COMPUCHEM			Method: 82	COD	GW-	-MW02	
Dab Ne	inc. compochen			Method: 82	8008			_ l
Lab Co	ode: LIBRTY	Case No.	:	SAS No.:	SDG	No.: T2	2812	
Matrix	c: (soil/water)	WATER		Lab	Sample ID:	T2812-	· 2	
Sample	e wt/vol:	5 (9	g/ml) ML	Lab	File ID:	T2812-	2RA52	
Level:	(low/med)	LOW		Dat	e Received:	01/08/	03	
% Mois	sture: not dec.		_	Dat	e Analyzed:	01/14/	03	
GC Col	umn: EQUITY624	ID: 0.53	3 (mm)	Dil	ution Facto	r: 1.0		
Soil E	Extract Volume:		(uL)	Soi	l Aliquot V	olume:		(uL
	CAS NO.	COMPOU	JND	CONCENTRA	TION UNITS: ug/Kg) UG/I		Q	-
	108-90-7 100-41-4 100-42-5 75-25-2 98-82-8 79-34-5 541-73-1 106-46-7 95-50-1 96-12-8 120-82-1 79-20-9 110-82-7 108-87-2		penzene peyl Benze 2-Tetracl chlorober chlorober bromo-3-(Trichloro (total) acetate	ene nloroethane nzene nzene nzene Chloropropan obenzene		55555555555555555555555555555555555555		

CLIENT SAMPLE NO.

GW-MW02-D

Lab Name: COMPUCHEM Method: 8260B

neemou. czob

CONCENTRATION UNITS:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812

Matrix: (soil/water) WATER Lab Sample ID: T2812-3

Sample wt/vol: 5 (g/ml) ML Lab File ID: T2812-3RA52

Level: (low/med) LOW Date Received: 01/08/03

% Moisture: not dec. _____ Date Analyzed: 01/14/03

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q 75-71-8-----Dichlorodifluoromethane 5 U 74-87-3------Chloromethane 75-01-4-----Vinyl Chloride 74-83-9-----Bromomethane 75-00-3-----Chloroethane 75-69-4-----Trichlorofluoromethane 75-35-4----1,1-Dichloroethene____ 75-15-0-----Carbon disulfide 76-13-1----1,1,2-trichloro-1,2,2-triflu 67-64-1-----Acetone R 5 U 5 U 5 U 75-09-2-----Methylene Chloride 156-60-5-----trans-1,2-Dichloroethene 1634-04-4----Methyl-tert-butyl ether 75-34-3-----1,1-Dichloroethane 5 U 156-59-2----cis-1,2-Dichloroethene 5 U 78-93-3----2-butanone 13 U 67-66-3-----Chloroform 71-55-6-----1,1,1-Trichloroethane 56-23-5-----Carbon Tetrachloride___ 71-43-2-----Benzene 107-06-2----1,2-Dichloroethane 79-01-6-----Trichloroethene 78-87-5----1,2-Dichloropropane 75-27-4-----Bromodichloromethane 10061-01-5----cis-1,3-Dichloropropene 5 U 108-10-1-----4-Methyl-2-pentanone 13 U 108-88-3-----Toluene 10061-02-6----trans-1,3-Dichloropropene 0.5 JB 5 U 79-00-5----1,1,2-Trichloroethane 5 | U 127-18-4----Tetrachloroethene_ 5 U 591-78-6----2-hexanone 13 U 124-48-1-----Dibromochloromethane 5 | U 106-93-4----1,2-Dibromoethane 5 ľU FORM I VOA

1330-20-7-----Xylene (total)
79-20-9------Methyl acetate

110-82-7-----Cyclohexane

108-87-2-----Methylcyclohexane

CLIENT SAMPLE NO.

GW-MW02-D Lab Name: COMPUCHEM Method: 8260B Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812 Matrix: (soil/water) WATER Lab Sample ID: T2812-3 Sample wt/vol: 5 (g/ml) ML Lab File ID: T2812-3RA52 Level: (low/med) LOW Date Received: 01/08/03 % Moisture: not dec. Date Analyzed: 01/14/03 GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0 Soil Extract Volume: (uL) Soil Aliquot Volume: ____(uL CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 0 108-90-7-----Chlorobenzene _____ 100-41-4-----Ethylbenzene 100-42-5-----Styrene 75-25-2-----Bromoform 98-82-8-----Isopropyl Benzene 79-34-5----1,1,2,2-Tetrachloroethane_ 541-73-1----1,3-Dichlorobenzene 106-46-7-----1,4-Dichlorobenzene 95-50-1-----1,2-Dichlorobenzene 96-12-8-----1,2-Dibromo-3-Chloropropane 120-82-1-----1,2,4-Trichlorobenzene

CLIENT SAMPLE NO.

CM-MMO3

Lab Name: COMPUCHEM Method: 8260B GW-MW03

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812

Matrix: (soil/water) WATER Lab Sample ID: T2812-16

Sample wt/vol: 5 (g/ml) ML Lab File ID: T2812-16B59

Level: (low/med) LOW Date Received: 01/15/03

% Moisture: not dec. _____ Date Analyzed: 01/22/03

GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q 75-71-8-----Dichlorodifluoromethane U 74-87-3-----Chloromethane 5 5 5 5 5 U 75-01-4-----Vinyl Chloride U 74-83-9-----Bromomethane U 75-00-3-----Chloroethane U 75-69-4-----Trichlorofluoromethane U 75-35-4-----1,1-Dichloroethene_____ 5 U 75-15-0-----Carbon disulfide 5 5 U 76-13-1----1,1,2-trichloro-1,2,2-triflu U 67-64-1-----Acetone 13 U 75-09-2-----Methylene Chloride U 5 5 5 156-60-5----trans-1,2-Dichloroethene U 1634-04-4----Methyl-tert-butyl ether U 75-34-3-----1,1-Dichloroethane 5 U 156-59-2----cis-1,2-Dichloroethene 5 U 78-93-3-----2-butanone_ 13 U 67-66-3-----Chloroform 5 5 5 5 U 71-55-6----1,1,1-Trichloroethane U 56-23-5-----Carbon Tetrachloride U U 71-43-2----Benzene 107-06-2----1,2-Dichloroethane 5 U 5 U 79-01-6-----Trichloroethene 78-87-5----1,2-Dichloropropane 5 U 75-27-4-----Bromodichloromethane 5 U 10061-01-5----cis-1,3-Dichloropropene 5 U 108-10-1----4-Methyl-2-pentanone 13 U 108-88-3-----Toluene 1 JB 10061-02-6----trans-1,3-Dichloropropene 5 | U 79-00-5----1,1,2-Trichloroethane 5 U 127-18-4-----Tetrachloroethene 5 U 591-78-6----2-hexanone 13 U 124-48-1-----Dibromochloromethane 5 U 5 U 106-93-4----1, 2-Dibromoethane FORM I VOA

95-50-1-----1,2-Dichlorobenzene

108-87-2-----Methylcyclohexane

110-82-7-----Cyclohexane

CLIENT SAMPLE NO.

GW-MW03 Lab Name: COMPUCHEM Method: 8260B Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812 Matrix: (soil/water) WATER Lab Sample ID: T2812-16 Sample wt/vol: 5 (q/ml) ML Lab File ID: T2812-16B59 Level: (low/med) LOW Date Received: 01/15/03 % Moisture: not dec. Date Analyzed: 01/22/03 GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0 Soil Extract Volume: (uL) Soil Aliquot Volume: ____(uL CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q 108-90-7-----Chlorobenzene 5 | U 100-41-4----Ethylbenzene 100-42-5-----Styrene 75-25-2-----Bromoform 98-82-8-----Isopropyl Benzene 79-34-5-----1,1,2,2-Tetrachloroethane 541-73-1-----1,3-Dichlorobenzene 106-46-7----1,4-Dichlorobenzene

CLIENT SAMPLE NO.

GW-MW05

Lab Name: COMPUCHEM Method: 8260B Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812 Matrix: (soil/water) WATER Lab Sample ID: T2812-12 Sample wt/vol: (g/ml) ML 5 Lab File ID: T2812-12A52 Level: (low/med) LOW Date Received: 01/10/03 % Moisture: not dec. Date Analyzed: 01/16/03

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 75-71-8------Dichlorodifluoromethane 5 U 74-87-3-----Chloromethane 5 U 5 U 5 U 5 U 75-01-4-----Vinyl Chloride 74-83-9-----Bromomethane 75-00-3-----Chloroethane 75-69-4-----Trichlorofluoromethane 5 U 75-35-4-----1,1-Dichloroethene 5 U 75-15-0-----Carbon disulfide 5 U 76-13-1----1,1,2-trichloro-1,2,2-triflu 5 U R 13 U 75-09-2-----Methylene Chloride 5 U 156-60-5----trans-1,2-Dichloroethene 5 U 1634-04-4-----Methyl-tert-butyl ether 5 U 75-34-3-----1,1-Dichloroethane 156-59-2----cis-1,2-Dichloroethene 5 U 5 U 78-93-3----2-butanone 13 U 67-66-3-----Chloroform 5 U 71-55-6-----1,1,1-Trichloroethane 5 U 5 U 5 U 5 U 0.9 J 56-23-5-----Carbon Tetrachloride 71-43-2-----Benzene 107-06-2----1,2-Dichloroethane 79-01-6-----Trichloroethene 78-87-5----1,2-Dichloropropane 5 5 U 75-27-4-----Bromodichloromethane U 10061-01-5----cis-1,3-Dichloropropene_ 5 U 13 U 108-10-1----4-Methyl-2-pentanone 108-88-3----Toluene 0.3 JB 10061-02-6-----trans-1,3-Dichloropropene 5 U 79-00-5-----1,1,2-Trichloroethane 5 U 127-18-4-----Tetrachloroethene 3 J 591-78-6----2-hexanone 13 U 124-48-1-----Dibromochloromethane 5 | U 106-93-4----1, 2-Dibromoethane 5 | U FORM I VOA

CLIENT SAMPLE NO.

GW-MW05 Lab Name: COMPUCHEM Method: 8260B Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812 Matrix: (soil/water) WATER Lab Sample ID: T2812-12 Sample wt/vol: 5 (g/ml) ML Lab File ID: T2812-12A52 Level: (low/med) LOW Date Received: 01/10/03 % Moisture: not dec. Date Analyzed: 01/16/03 GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0 Soil Extract Volume: (uL) Soil Aliquot Volume: ____(uL CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 0

	(43, 2 62 43,	, 1.9, 00, 1	¥
108-90-7	Chlorobenzene	5	II
100-41-4	Ethylbenzene	5	Ū
100-42-5	Styrene	5	ΙŬ
75-25-2	Bromoform	5	U
98-82-8	Isopropyl Benzene	5	Ū
79-34-5	1,1,2,2-Tetrachloroethane	5	ับ
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5 '	U
95 - 50 - 1 -	1,2-Dichlorobenzene	5	U
96-12-8 	1,2-Dibromo-3-Chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
1330-20-7	Xylene (total)	5	U
79-20-9	Methyl acetate	5	U
110 - 82 - 7	Cyclohexane	5	U
108-87-2	Methylcyclohexane	5	U

CLIENT SAMPLE NO.

GW-MW06

Method: 8260B Lab Name: COMPUCHEM

Case No.: Lab Code: LIBRTY SAS No.: SDG No.: T2812

Matrix: (soil/water) WATER Lab Sample ID: T2812-13

Sample wt/vol: 5 (q/ml) ML Lab File ID: T2812-13A52

Level: (low/med) LOW Date Received: 01/10/03

% Moisture: not dec. Date Analyzed: 01/16/03

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL

CONCENTRATION UNITS: CAS NO. COMPOUND (uq/L or uq/Kq) UG/L0 75-71-8-----Dichlorodifluoromethane 5 | U 74-87-3-----Chloromethane_ 75-01-4-----Vinyl Chloride 74-83-9-----Bromomethane 75-00-3-----Chloroethane 75-69-4-----Trichlorofluoromethane 75-35-4----1,1-Dichloroethene 75-15-0-----Carbon disulfide_ 76-13-1-----1,1,2-trichloro-1,2,2-triflu 5 U 67-64-1------Acetone 13 U 75-09-2-----Methylene Chloride 5 U 156-60-5----trans-1,2-Dichloroethene 5 U 1634-04-4-----Methyl-tert-butyl ether___ 5 U 75-34-3-----1,1-Dichloroethane 156-59-2-----cis-1,2-Dichloroethene 5 U 5 U 78-93-3----2-butanone 13 U 67-66-3------Chloroform 71-55-6-----1,1,1-Trichloroethane 56-23-5-----Carbon Tetrachloride 71-43-2-----Benzene 107-06-2----1,2-Dichloroethane_ 79-01-6-----Trichloroethene 78-87-5-----1,2-Dichloropropane 75-27-4-----Bromodichloromethane 10061-01-5----cis-1,3-Dichloropropene 108-10-1-----4-Methyl-2-pentanone $1\overline{3}$ U

FORM I VOA

108-88-3-----Toluene

591-78-6----2-hexanone

10061-02-6----trans-1,3-Dichloropropene

79-00-5-----1,1,2-Trichloroethane

124-48-1-----Dibromochloromethane

127-18-4----Tetrachloroethene

106-93-4-----1,2-Dibromoethane

0.3

5 U

5 U

5 U

5 U

13 U

JB

U 5

CLIENT SAMPLE NO.

GW-MW06 Lab Name: COMPUCHEM Method: 8260B Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812 Matrix: (soil/water) WATER Lab Sample ID: T2812-13 Sample wt/vol: 5 (g/ml) ML Lab File ID: T2812-13A52 Level: (low/med) LOW Date Received: 01/10/03 % Moisture: not dec. Date Analyzed: 01/16/03 GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0 Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

(15), 11 01 03)	9, 00,2	×
108-90-7	5 5 5 5 5 5 5 5 5	บ บ บ บ บ บ บ บ
95-50-11,2-Dichlorobenzene 96-12-81,2-Dibromo-3-Chloropropane 120-82-11,2,4-Trichlorobenzene 1330-20-7Xylene (total) 79-20-9Methyl acetate 110-82-7Cyclohexane 108-87-2	355555555	ם ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט

CLIENT SAMPLE NO.

SDG No.: T2812

GW-MW07

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.:

Matrix: (soil/water) WATER Lab Sample ID: T2812-8

Sample wt/vol: 5 (g/ml) ML Lab File ID: T2812-8RA52

Level: (low/med) LOW Date Received: 01/09/03

% Moisture: not dec. ___ Date Analyzed: 01/16/03

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 0 5 U 75-71-8-----Dichlorodifluoromethane 74-87-3-----Chloromethane 5 U 75-01-4-----Vinyl Chloride 74-83-9-----Bromomethane 75-00-3-----Chloroethane 75-69-4-----Trichlorofluoromethane 75-35-4-----1,1-Dichloroethene____ 75-15-0------Carbon disulfide 76-13-1----1,1,2-trichloro-1,2,2-triflu R 67-64-1-------Acetone 13 U 5 U 5 U 5 U 0.7 J 75-09-2-----Methylene Chloride 156-60-5----trans-1,2-Dichloroethene 1634-04-4-----Methyl-tert-butyl ether 75-34-3-----1,1-Dichloroethane_ 156-59-2----cis-1,2-Dichloroethene 78-93-3----2-butanone 13 U 67-66-3-----Chloroform 71-55-6-----1,1,1-Trichloroethane 56-23-5-----Carbon Tetrachloride 71-43-2-----Benzene 107-06-2----1, 2-Dichloroethane 79-01-6-----Trichloroethene 78-87-5-----1,2-Dichloropropane 75-27-4-----Bromodichloromethane 10061-01-5----cis-1,3-Dichloropropene 108-10-1-----4-Methyl-2-pentanone 13 U 108-88-3-----Toluene 10061-02-6-----trans-1,3-Dichloropropene 0.2 JB 5 U 79-00-5-----1,1,2-Trichloroethane 5 U 127-18-4-----Tetrachloroethene 4 J 591-78-6----2-hexanone 13 U 124-48-1-----Dibromochloromethane 5 U 106-93-4-----1,2-Dibromoethane 5 U

CLIENT SAMPLE NO.

GW-MW07

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812

Matrix: (soil/water) WATER Lab Sample ID: T2812-8

Sample wt/vol: 5 (g/ml) ML Lab File ID: T2812-8RA52

Level: (low/med) LOW Date Received: 01/09/03

% Moisture: not dec. Date Analyzed: 01/16/03

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 0 108-90-7-----Chlorobenzene 5 U 100-41-4-----Ethylbenzene 5 U 100-42-5------Styrene 75-25-2------Bromoform 5 | U 5 U 98-82-8-----Isopropyl Benzene 5 5 5 5 5 U U U U U 5 5 5 5 U U U U 5 U 108-87-2-----Methylcyclohexane 5 U

CLIENT SAMPLE NO.

GW-MW08

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812

Matrix: (soil/water) WATER

Lab Sample ID: T2812-4

Sample wt/vol: 5 (g/ml) ML

Lab File ID: T2812-4RA52

Level: (low/med) LOW

Date Received: 01/08/03

% Moisture: not dec.

Date Analyzed: 01/14/03

Soil Extract Volume: ____(uL)

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Aliquot Volume: ____(uL

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L

0

(ug/L of ug/kg/ og/L	~ ~	
75-71-8Dichlorodifluoromethane	5 U	
74-87-3Chloromethane	5 บ	1
75-01-4Vinyl Chloride	ร์ไบ้	1
74-83-9Bromomethane	ร์ มี	1
75-00-3Chloroethane	ร์ บั	
75-69-4Trichlorofluoromethane	5 U 5 U 5 U 5 U	
75-35-41,1-Dichloroethene	5 U	1
75-15-0Carbon disulfide	5 U	į
76-13-11,1,2-trichloro-1,2,2-triflu	ร์ บั	1_
67-64-1Acetone	13 Ü	1 R
75-09-2Methylene Chloride	รี บั	
156-60-5trans-1,2-Dichloroethene	5 บั	İ
1634-04-4Methyl-tert-butyl ether	5 U	
75-34-31,1-Dichloroethane	5 บั	
156-59-2cis-1,2-Dichloroethene	รโซ	
78-93-32-butanone	13 U	
67-66-3Chloroform	์ 5 บั	
71-55-61,1,1-Trichloroethane	5 U	1
56-23-5Carbon Tetrachloride	5 บั	
71-43-2Benzene	5 บ	
107-06-21,2-Dichloroethane	5 บ	
79-01-6Trichloroethene).8 J	
78-87-51,2-Dichloropropane	5 บ	1
75-27-4Bromodichloromethane	5 U	
10061-01-5cis-1,3-Dichloropropene	5 บ	1
108-10-14-Methyl-2-pentanone	13 U	
108-88-3Toluene0).4 JB	B
10061-02-6trans-1,3-Dichloropropene	5 ប	1
79-00-51,1,2-Trichloroethane	5 U	3
127-18-4Tetrachloroethene	6	
591-78-62-hexanone	13 U	
124-48-1Dibromochloromethane	5 U	<u> </u>
106-93-41,2-Dibromoethane	5 U	
FORM I VOA		.I

CLIENT SAMPLE NO.

			GW-MW08	
Lab Name: COMPUCHEM	Method: 8260B	l <u> </u>		.
Lab Code: LIBRTY Case No.:	SAS No.:	SDG N	o.: T2812	
Matrix: (soil/water) WATER	Lab Sam	mple ID:	T2812-4	
Sample wt/vol: 5 (g/n)	nl) ML Lab Fil	le ID:	T2812-4RA52	
Level: (low/med) LOW	Date Re	eceived:	01/08/03	
Moisture: not dec.	Date An	nalyzed:	01/14/03	
GC Column: EQUITY624 ID: 0.53	(mm) Dilutio	n Factor	: 1.0	
Soil Extract Volume:(uI	Soil Al	.iquot Vo	lume:	(u)
CAS NO. COMPOUND	CONCENTRATION (ug/L or ug/K	UNITS: (g) UG/L	Q	
108-90-7	m l Benzene Tetrachloroethane lorobenzene lorobenzene lorobenzene omo-3-Chloropropane ichlorobenzene total) cetate		5 U U U U U U U U U U U U U U U U U U U	

CLIENT SAMPLE NO.

GW-MW09

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812

Matrix: (soil/water) WATER Lab Sample ID: T2812-11

Sample wt/vol: 5 (g/ml) ML Lab File ID: T2812-11A52

Level: (low/med) LOW Date Received: 01/10/03

% Moisture: not dec. Date Analyzed: 01/16/03

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND	(ug/L Of	ug/kg/	0G/L		Q	
75-71-8	Dichlorodifluor	romethane			5	[]	
74-87-3	Chloromethane				5		
75-01-4	Vinyl Chloride				5	זז	
74-83-9	Bromomethane					Ü	
	Chloroethane	*****				Ü	
75-69-4	Trichlorofluoro	omethane				Ū	
75-35-4	1,1-Dichloroeth	nene			_	Ü	
75-15-0	Carbon disulfic	de				Ü	
	1,1,2-trichlord		ET ii			U	
67-64-1	Acetone	2,0,0			1	U	R
	Methylene Chlor	ride				Ŭ	•
156-60-5	trans-1,2-Dichl	loroethene			~	Ŭ	
1634-04-4	Methyl-tert-but	\sim	 -			U	
75-34-3	1,1-Ďichloroeth	nane				Ū	
156-59-2	-cis-1 ,2-Dichlor	roethene				Ū	
78~93-3	2-butanone					Ū	
	Chloroform					Ū	
71-55-6	1,1,1-Trichloro	oethane				U .	
56-23 - 5	Carbon Tetrachl	loride				U	
71-43-2	Benzene					U	
107-06-2	1,2-Dichloroeth	nane			5	U	. 10
79-01-6	Trichloroethene	2			5	U	12.76
78-87-5	1,2-Dichloropro	pane			5	U	3/0.2
75-27-4	Bromodichlorome	ethane			5 5 5 5	U	
10061-01-5	cis-1,3-Dichlor	copropene			5	U	
108-10-1	4-Methyl-2-pent	anone			13		
108-88-3	Toluene				0.3	JB	B
10061-02-6	trans-1,3-Dichl	loropropene				U	
79-00-5	1,1,2-Trichloro	oethane			5		
12/-18-4	Tetrachloroethe	ene			0.8		
591-78-6	2-hexanone					U	
106 02 4	Dibromochlorome	ethane			- 1	U	
106-93-4	1,2-Dibromoetha	ane			5	U	
	₽∩DM T	V/ON	1		[

CLIENT SAMPLE NO.

GW-MW09 Lab Name: COMPUCHEM Method: 8260B Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812 Matrix: (soil/water) WATER Lab Sample ID: T2812-11 Lab File ID: T2812-11A52 Sample wt/vol: 5 (g/ml) MLDate Received: 01/10/03 Level: (low/med) LOW % Moisture: not dec. _____ Date Analyzed: 01/16/03 GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0 Soil Extract Volume: ____(uL) Soil Aliquot Volume: (uL CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

108-90-7Chlorobenzene 5 U 100-41-4Ethylbenzene 5 U 100-42-5Styrene 5 U 75-25-2Bromoform 5 U 98-82-8Isopropyl Benzene 5 U 79-34-51,1,2,2-Tetrachloroethane 5 U 541-73-11,3-Dichlorobenzene 5 U 95-50-11,2-Dichlorobenzene 5 U 96-12-81,2-Dichlorobenzene 5 U 120-82-11,2,4-Trichlorobenzene 5 U 1330-20-7Xylene (total) 5 U 79-20-9Methyl acetate 5 U 10-82-7	CAS NO.	COMPOUND	(ug/L or	ug/Kg)	UG/L		Q
	100-41-4 100-42-5 75-25-2 98-82-8 79-34-5 541-73-1 106-46-7 95-50-1 96-12-8 120-82-1 1330-20-7 79-20-9	EthylbenzeneStyreneBromoformIsopropyl Ben1,1,2,2-Tetra1,4-Dichlorob1,2-Dichlorob1,2-Dibromo-31,2,4-TrichlorobXylene (total	nzene achloroethane benzene benzene cenzene cenzene crobenzene			5555555555555555	

GW-MW10

Lab Name: COMPUCHEM Method: 8260B Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812 Matrix: (soil/water) WATER Lab Sample ID: T2812-6 Sample wt/vol: 5 (g/ml) ML Lab File ID: T2812-6RA52 Level: (low/med) LOW Date Received: 01/09/03 % Moisture: not dec. Date Analyzed: 01/16/03 GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

75-71-8-----Dichlorodifluoromethane 5 | U 74-87-3-----Chloromethane 5 | U 75-01-4-----Vinyl Chloride 5 U 5 U 5 U 74-83-9-----Bromomethane 75-00-3-----Chloroethane 75-69-4----Trichlorofluoromethane 5 U 75-35-4-----1,1-Dichloroethene____ 5 U 75-15-0-----Carbon disulfide 5 | U $76-13-1-----1,1,2-trichloro-\overline{1,2,2-triflu}$ 5 | U R 67-64-1------Acetone 13 U 75-09-2-----Methylene Chloride 156-60-5----trans-1,2-Dichloroethene 5 U 1634-04-4-----Methyl-tert-butyl ether 5 U 75-34-3-----1,1-Dichloroethane 5 U 156-59-2----cis-1,2-Dichloroethene 5 U 78-93-3-----2-butanone 67-66-3------Chloroform 13 U 5 U 71-55-6-----1,1,1-Trichloroethane 5 U 56-23-5-----Carbon Tetrachloride 5 U 71-43-2-----Benzene 5 U 107-06-2----1,2-Dichloroethane 5 U 79-01-6-----Trichloroethene 5 U 78-87-5-----1,2-Dichloropropane 5 U 75-27-4-----Bromodichloromethane 5 | U 10061-01-5----cis-1,3-Dichloropropene 5 | U 108-10-1----4-Methyl-2-pentanone 13 U 108-88-3-----Toluene 10061-02-6----trans-1,3-Dichloropropene В 0.4 JB 5 U 3)22/3 79-00-5----1,1,2-Trichloroethane 5 | U 127-18-4----Tetrachloroethene 5 U 591-78-6----2-hexanone 13 U 124-48-1-----Dibromochloromethane 5 U 106-93-4-----1,2-Dibromoethane 5 U FORM I VOA

CLIENT SAMPLE NO.

GW-MW10

Lab Name: COMPUCHEM Lab Code: LIBRTY Case No.: SAS No.:

Method: 8260B

SDG No.: T2812

Matrix: (soil/water) WATER

Lab Sample ID: T2812-6

Sample wt/vol: 5 (g/ml) ML Lab File ID: T2812-6RA52

Level: (low/med) LOW

Date Received: 01/09/03

% Moisture: not dec.

Date Analyzed: 01/16/03

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: ____(uL

CAS NO. COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

0

108-90-7	555555555555 0	UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU
----------	-------------------	--

(q/ml) ML

CLIENT SAMPLE NO.

T2812-7A52

SDG No.: T2812

Lab File ID:

CONCENTRATION UNITS:

GW-MW11

Lab Name: COMPUCHEM Method: 8260B

Case No.:

5

Lab Code: LIBRTY

Sample wt/vol:

Matrix: (soil/water) WATER Lab Sample ID: T2812-7

Level: (low/med) LOW Date Received: 01/09/03

% Moisture: not dec. Date Analyzed: 01/15/03

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: ____(uL

SAS No.:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 0 75-71-8-----Dichlorodifluoromethane 5 | U 74-87-3-----Chloromethane 75-01-4------Vinyl Chloride 74-83-9-----Bromomethane___ 75-00-3-----Chloroethane 75-69-4----Trichlorofluoromethane 75-35-4-----1,1-Dichloroethene 75-15-0-----Carbon disulfide 5 U 76-13-1----1,1,2-trichloro-1,2,2-triflu 5 U 67-64-1------Acetone R 13 U 75-09-2-----Methylene Chloride 5 U 156-60-5----trans-1,2-Dichloroethene 5 U 1634-04-4-----Methyl-tert-butyl ether 5 U 75-34-3----1,1-Dichloroethane 5 U 156-59-2----cis-1,2-Dichloroethene 5 U 78-93-3----2-butanone 13 U 67-66-3-----Chloroform 71-55-6----1,1,1-Trichloroethane 56-23-5-----Carbon Tetrachloride 71-43-2-----Benzene 107-06-2----1,2-Dichloroethane 79-01-6-----Trichloroethene 78-87-5----1,2-Dichloropropane 75-27-4-----Bromodichloromethane 10061-01-5----cis-1,3-Dichloropropene 108-10-1----4-Methyl-2-pentanone 13 U 108-88-3-----Toluene 0.4|JB 10061-02-6----trans-1,3-Dichloropropene 5 U 79-00-5-----1,1,2-Trichloroethane 5 U 127-18-4-----Tetrachloroethene 5 U 591-78-6----2-hexanone 13 U 124-48-1-----Dibromochloromethane 5 | U 106-93-4-----1,2-Dibromoethane_ 5 U FORM I VOA

110-82-7------Cyclohexane

108-87-2-----Methylcyclohexane

CLIENT SAMPLE NO.

GW-MW11 Lab Name: COMPUCHEM Method: 8260B Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812 Matrix: (soil/water) WATER Lab Sample ID: T2812-7 Sample wt/vol: 5 (g/ml) ML Lab File ID: T2812-7A52 Level: (low/med) LOW Date Received: 01/09/03 % Moisture: not dec. Date Analyzed: 01/15/03 GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 108-90-7-----Chlorobenzene 5 U 100-41-4-----Ethylbenzene 100-42-5-----Styrene

5 U

5 U

Sample wt/vol: 5 (q/ml) ML Lab File ID:

CLIENT SAMPLE NO.

SDG No.: T2812

TRIPBLANK 1-7

T2812-5R2A52

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.:

Matrix: (soil/water) WATER Lab Sample ID: T2812-5

Level: (low/med) LOW

Date Received: 01/08/03

% Moisture: not dec. _____ Date Analyzed: 01/15/03

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL

CONCENTRATION UNITS: COMPOUND CAS NO. (ug/L or ug/Kg) UG/L Q 75-71-8-----Dichlorodifluoromethane 5 U 74-87-3-----Chloromethane 75-01-4-----Vinyl Chloride 74-83-9-----Bromomethane 75-00-3-----Chloroethane 75-69-4-----Trichlorofluoromethane 75-35-4----1,1-Dichloroethene____ 75-15-0-----Carbon disulfide 76-13-1-----1,1,2-trichloro-1,2,2-triflu R 67-64-1------Acetone 13 U 75-09-2-----Methylene Chloride 0.3 156-60-5----trans-1,2-Dichloroethene 5 5 5 5 U 1634-04-4-----Methyl-tert-butyl ether U 75-34-3----1,1-Dichloroethane U 156-59-2----cis-1,2-Dichloroethene U 78-93-3----2-butanone 13 U 67-66-3-----Chloroform 5555555 U 71-55-6----1,1,1-Trichloroethane U 56-23-5-----Carbon Tetrachloride___ U 71-43-2-----Benzene U 107-06-2----1,2-Dichloroethane U 79-01-6-----Trichloroethene U 78-87-5----1,2-Dichloropropane U 75-27-4-----Bromodichloromethane 5 U 10061-01-5----cis-1,3-Dichloropropene 5 U 108-10-1----4-Methyl-2-pentanone 13 U 108-88-3-----Toluene 10061-02-6----trans-1,3-Dichloropropene 0.6|JB 5 U 79-00-5-----1,1,2-Trichloroethane____ U 127-18-4-----Tetrachloroethene 5 U 591-78-6----2-hexanone 13 U 124-48-1-----Dibromochloromethane 106-93-4-----1,2-Dibromoethane 5 U FORM I VOA

CLIENT SAMPLE NO.

TRIPBLANK 1-7

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812

Matrix: (soil/water) WATER Lab Sample ID: T2812-5

Sample wt/vol: 5 (g/ml) ML Lab File ID: T2812-5R2A52

Level: (low/med) LOW Date Received: 01/08/03

% Moisture: not dec. ____ Date Analyzed: 01/15/03

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL

CONCENTRATION UNITS:

COMPOUND CAS NO. (ug/L or ug/Kg) UG/L 0 108-90-7-----Chlorobenzene 100-41-4-----Ethylbenzene 100-42-5-----Styrene 75-25-2-----Bromoform 98-82-8-----Isopropyl Benzene 79-34-5-----1,1,2,2-Tetrachloroethane_ 541-73-1----1,3-Dichlorobenzene 106-46-7----1,4-Dichlorobenzene 95-50-1----1,2-Dichlorobenzene 96-12-8-----1,2-Dibromo-3-Chloropropane 120-82-1-----1,2,4-Trichlorobenzene 0.9 JB 1330-20-7------Xylene (total) 79-20-9------Methyl acetate 5 U 5 U 110-82-7-----Cyclohexane 5 U 108-87-2-----Methylcyclohexane 5 U

CLIENT SAMPLE NO.

TRIPBLANK 1-8

Method: 8260B Lab Name: COMPUCHEM

Lab Code: LIBRTY Case No.: SAS No.:

SDG No.: T2812

Matrix: (soil/water) WATER

Lab Sample ID: T2812-10

Sample wt/vol: 5 (q/ml) ML

Lab File ID: T2812-10A52

Level: (low/med) LOW

Date Received: 01/09/03

% Moisture: not dec. _____

Date Analyzed: 01/15/03

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: ____(uL

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 0

CAD NO.	(ug/ II of ug/	Ng/ 00/11		Q	
75-71-8	Dichlorodifluoromethane		5	U	
74-87-3	Chloromethane			U	
	Vinyl Chloride		5	Ü	
	Bromomethane		5	U	İ
	Chloroethane		5	Ü	
75-69-4	Trichlorofluoromethane		5.	Ŭ	1
75-35-4	1,1-Dichloroethene		5	Ŭ	
75-15-0	Carbon disulfide		5	Ŭ	
	1,1,2-trichloro-1,2,2-triflu		5	Ŭ	
67-64-1		,		Ŭ	R
	Methylene Chloride		0.4	_	l' los
	trans-1,2-Dichloroethene			Ü	1270
1634-04-4	Methyl-tert-butyl ether		5	Ŭ	1 10
75-34-3	1,1-Dichloroethane		1	Ŭ	
156-59-2	cis-1,2-Dichloroethene		5	Ū	
78-93-3	2-butanone		- 1	Ŭ	
67-66-3	Chloroform		· ·	Ü	
71-55-6	1,1,1-Trichloroethane		- 1	Ū	
56-23-5	Carbon Tetrachloride		5	Ū	
71-43-2	Benzene		5	Ū	1
107-06-2	1,2-Dichloroethane		5	Ū	1
79-01-6	Trichloroethene			Ŭ	
78-87-5	1,2-Dichloropropane		5	U	İ
75-27-4	Bromodichloromethane		1	Ū	
10061-01-5	cis-1,3-Dichloropropene			Ū	
108-10-1	4-Methyl-2-pentanone		1	Ū	
108-88-3	Toluene			JВ	
10061-02-6	trans-1,3-Dichloropropene		1	Ū	
79-00-5	1,1,2-Trichloroethane			Ū	
127-18-4	Tetrachloroethene			Ū	}
591-78-6	2-hexanone_		13	Ü	
124-48-1	Dibromochloromethane		1	U	†
106-93-4	1,2-Dibromoethane			U	
l					1

79-34-5-----1,1,2,2-Tetrachloroethane 541-73-1----1,3-Dichlorobenzene

CLIENT SAMPLE NO.

5 U 5 U 5 U

TRIPBLANK 1-8 Lab Name: COMPUCHEM Method: 8260B Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812 Lab Sample ID: T2812-10 Matrix: (soil/water) WATER Sample wt/vol: 5 (q/ml) ML Lab File ID: T2812-10A52 Level: (low/med) LOW Date Received: 01/09/03 % Moisture: not dec. Date Analyzed: 01/15/03 GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0 Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q 108-90-7-----Chlorobenzene 0.2 JB 100-41-4-----Ethylbenzene 100-42-5-----Styrene 75-25-2-----Bromoform 98-82-8-----Isopropyl Benzene_

CLIENT SAMPLE NO.

TRIPBLANK 1-9

Method: 8260B Lab Name: COMPUCHEM Case No.: SAS No.: SDG No.: T2812 Lab Code: LIBRTY Lab Sample ID: T2812-15 Matrix: (soil/water) WATER 5 (q/ml) ML Lab File ID: T2812-15A52 Sample wt/vol: Level: (low/med) LOW Date Received: 01/10/03 Date Analyzed: 01/15/03 % Moisture: not dec. ___ GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Ali

Soil Aliquot Volume: (uL

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 0 75-71-8-----Dichlorodifluoromethane 5 U 74-87-3-----Chloromethane 5 U 5 U U U U U U U U 75-01-4-----Vinyl Chloride 74-83-9-----Bromomethane____ 75-00-3-----Chloroethane 75-15-0-----Carbon disulfide 5 | U 76-13-1----1, 1, 2-trichloro- $\overline{1,2,2-triflu}$ 5 U 67-64-1------Acetone 13 U 75-09-2-----Methylene Chloride 0.4 J 156-60-5----trans-1,2-Dichloroethene 5 U 5 U 1634-04-4-----Methyl-tert-butyl ether 75-34-3-----1,1-Dichloroethane 156-59-2----cis-1,2-Dichloroethene 5 | U 5 78-93-3----2-butanone 13 U 67-66-3-----Chloroform 5 U 5 71-55-6----1,1,1-Trichloroethane U 56-23-5-----Carbon Tetrachloride U 71-43-2-----Benzene 55555 U 107-06-2----1,2-Dichloroethane U 79-01-6-----Trichloroethene U 78-87-5-----1,2-Dichloropropane U 75-27-4-----Bromodichloromethane U 10061-01-5----cis-1,3-Dichloropropene 5 U 108-10-1-----4-Methyl-2-pentanone 13 U 108-88-3----Toluene 0.5 JB 10061-02-6-----trans-1,3-Dichloropropene 5 U 79-00-5----1,1,2-Trichloroethane____ 5 U 5, 127-18-4-----Tetrachloroethene U 591-78-6----2-hexanone 13 U

FORM I VOA

124-48-1-----Dibromochloromethane

106-93-4-----1,2-Dibromoethane

5 U 5 U

CLIENT SAMPLE NO.

5 U 5 U 5 U 5 U

TRIPBLANK 1-9 Lab Name: COMPUCHEM Method: 8260B Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812 Matrix: (soil/water) WATER Lab Sample ID: T2812-15 Sample wt/vol: 5 (q/ml) ML Lab File ID: T2812-15A52 Level: (low/med) LOW Date Received: 01/10/03 % Moisture: not dec. Date Analyzed: 01/15/03 GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0 Soil Extract Volume:____(uL) Soil Aliquot Volume: ____(uL CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 0 108-90-7------Chlorobenzene 5 U 100-41-4-----Ethylbenzene 100-42-5-----Styrene 75-25-2-----Bromoform 98-82-8-----Isopropyl Benzene
79-34-5-----1,1,2,2-Tetrachloroethane
541-73-1----1,3-Dichlorobenzene

FORM I VOA

FORM 1

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ER-SS-010803

Contract: 8260B

Lab Code: LIBRTY

Case No.:

5

LOW

SAS No.:

SDG No.: T2812

Matrix: (soil/water) WATER

Lab Sample ID: T2812-9

Sample wt/vol:

(q/ml) ML

Lab File ID: T2812-9RA52

Level:

(low/med)

Date Received: 01/09/03

% Moisture: not dec.

Date Analyzed: 01/16/03

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: ____(uL

Number TICs found: 1

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

3/2263

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	HABORATORY ARTIFACT	16.22		
2				• -
3.				
5.		_		
6		-		
7		-		
0.				
9. !		_ -		
10.				
L L .				
12.		_ -	·	
13.		-		
15.		-		
16.		- -		
· / •				
18.				-
19.				
20.		_ -		
22.		_ -		
23.		- -		
24.		- -		
25. I		-		
26.		_		
27.				
28.		_		
0.		_[]_		
···				

FORM I VOA-TIC

FORM 1

Number TICs found: 2

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

			ER-SS-010903
Lab Name:	COMPUCHEM	Contract: 8260B	

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812

Matrix: (soil/water) WATER Lab Sample ID: T2812-14

Sample wt/vol: 5 (g/ml) ML Lab File ID: T2812-14A52

Level: (low/med) LOW Date Received: 01/10/03

% Moisture: not dec. Date Analyzed: 01/16/03

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

3/27/03

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	ABORATORY ARTIPACT	16.23	33.95	=== JB
	ABORATORY ARTIFACT	17.42	7.40	JD-
3.	MBOKATOKI AKTITACI	17744	/.10	00
<u>, </u>				
5.				
6.				
7.		l		l
٠.				
9.				
0				-
1.				
2				
3. I				
4				
<u> </u>				
O				
<i>/</i> .		-		
8			<u> </u>	
9				
0				-
1.				
2.				
J.				
4. 1	· · · · · · · · · · · · · · · · · · ·			
5				
6.				
7				
8	<u> </u>			
o·				
9				
0.		1		

FORM I VOA-TIC

CLIENT SAMPLE NO.

GW-MW01

Lab Name: COMPUCHEM	Contract: 8260B
Lab Code: LIBRTY Case No.:	SAS No.: SDG No.: T2812
Matrix: (soil/water) WATER	Lab Sample ID: T2812-1
Sample wt/vol: 5 (g/ml) M	L Lab File ID: T2812-1RA52
Level: (low/med) LOW	Date Received: 01/08/03
% Moisture: not dec.	Date Analyzed: 01/14/03
GC Column: EQUITY624 ID: 0.53 (mm)	Dilution Factor: 1.0

Number TICs found: 1

Soil Extract Volume:____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

Soil Aliquot Volume: ____(uL

3/27/2

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1 LA	ABORATORY ARTIFACT	16.23	13.83	====
2			10.05	
4.				
5		_		
6.		-		I
7		-		ļ ———
8.			· · · · · · · · · · · · · · · · · · ·	
0.				
1:		_		
2.		-		
3		-		
1				
ō.				l
?:				
S:		-		
P		-		
)		-		ļ
		-		
3.				
· ·		_		
		_ .		
		-		
		- -		
		-		

FORM I VOA-TIC

FORM 1

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: T2812

Matrix: (soil/water) WATER

Lab Sample ID: T2812-2

Sample wt/vol: 5 (q/ml) ML

Lab File ID: T2812-2RA52

Level: (low/med) LOW

Date Received: 01/08/03

Date Analyzed: 01/14/03

% Moisture: not dec.

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Aliquot Volume: ____(uL

Soil Extract Volume: ____ (uL)

CONCENTRATION UNITS:

Number TICs found: 2

(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	LABORATORY ARTIFACT		=======================================	====
2.	LABORATORY ARTIFACT	16.23	13.12	
3.	LIABORATORY ARTIFACT	17.43	14.25	าย
4.				
5.				
6.				
7.		:		
8				
9.				-
10.				-
11.				
12.				
13.		-		
14.		- 		
15				
16				
17.				
18.				
19.				
20.				
21.				-
22.				
23.				* **********
24.				
23.				
20.		i		
27				
28.				
29.				
30.		-		
~·		{		

FORM I VOA-TIC

FORM 1

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

GW-MW02-D

Lab	Name:	COMPUCHEM

Lab Code: LIBRTY Case No.: SAS No.:

Contract: 8260B

SDG No.: T2812

Matrix: (soil/water) WATER

Lab Sample ID: T2812-3

Sample wt/vol: 5 (g/ml) ML Lab File ID:

T2812-3RA52

Level: (low/med) LOW

Date Received: 01/08/03

% Moisture: not dec.

Date Analyzed: 01/14/03

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: _____(uL

CONCENTRATION UNITS:

umber TICs found: 1	(ug/	(ug/L or ug/Kg) ug/L		
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q =====
1. 2. 3.	SORATORY ARTIFACT	16.23	12.17	
4				
7. 8. 9.				
10.				
14				
16. 17. 18.				
21.				
23.				
66. 27.				
9.				

FORM I VOA-TIC

CLIENT SAMPLE NO.

GW-MW	03

_					GN-141102
Lab	Name:	COMPUCHEM	Contract:	8260B	l
	11011101	com comen	concrace.	OZOOD	l

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812

Matrix: (soil/water) WATER Lab Sample ID: T2812-16

Sample wt/vol: 5 (g/ml) ML Lab File ID: T2812-16B59

Level: (low/med) LOW Date Received: 01/15/03

% Moisture: not dec. ____ Date Analyzed: 01/22/03

GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL

Number TICs found: 3 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

3/27/3

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	LABORATORY ARTIFACT		======================================	====
2.	LABORATORY ARTIFACT	13.48	36.16	
3.		14.87	21.82	JB
3.	LABORATORY ARTIFACT	16.19	6.48	J
4				
5				
6.				
/ .				
0.				
9.				
0.				
7				
1				
2				
J.				
4 .	_			
				
9.				
0.				
1	- -			
<u> </u>				
2				
3.				
4.				
Э.				
		-		
8				
9				
ó:	_		·	
·		1 1		

FORM I VOA-TIC

FORM 1

CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

		2 33 33		GW-MW05
Lab Name: C	OMPUCHEM	Contract:	8260B	

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812

Matrix: (soil/water) WATER Lab Sample ID: T2812-12

Sample wt/vol: 5 (q/ml) ML Lab File ID: T2812-12A52

Level: (low/med) LOW Date Received: 01/10/03

% Moisture: not dec. _____ Date Analyzed: 01/16/03

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____ (uL) Soil Aliquot Volume: ____(uL

CONCENTRATION UNITS:

3/27/03 Number TICs found: 1 (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	LABORATORY ARTIFACT	16.24	7.42	JB
3.4.				
5.				
7.				
0.				
3.				
4. 5.				
6. 7. 8.				
9.				
1.				
3. 4.				
5 6 7				
8. 9.				
0.				

FORM I VOA-TIC

CLIENT SAMPLE NO.

Soil Aliquot Volume: ____(uL

TENTATIVELY IDENTIFIED COMPOUNDS

CHEM Contract: 8260B

GW-MW06

ьар	Name:	COMPUCHEM	Contract:	8260B	!
					'

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812

Matrix: (soil/water) WATER Lab Sample ID: T2812-13

Sample wt/vol: 5 (g/ml) ML Lab File ID: T2812-13A52

Level: (low/med) LOW Date Received: 01/10/03

% Moisture: not dec. ____ Date Analyzed: 01/16/03

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

Soil Extract Volume: ____(uL)

3/27/03

			1	31
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	ABORATORY ARTIFACT	16.23	8.05	JB
2.		10.23	0.03	UB
3.				
1 .				
5				
6.				
7				-
0.				
10.				
12.				
14.				
15				
15.				
16.		l ————		
17.				
19		l		
20.				
21				
22.				
43,				
24.				
23.				
20.				
21.				
28.				
29.				
30.				

FORM I VOA-TIC

CLIENT SAMPLE NO.

GW-MW07

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SI

SDG No.: T2812

Matrix: (soil/water) WATER

Lab Sample ID: T2812-8

Sample wt/vol:

5 (g/ml) ML

Lab File ID: T2812-8RA52

Level: (low/med) LOW

Number TICs found: 1

Date Received: 01/09/03

% Moisture: not dec.

Date Analyzed: 01/16/03

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: ____(uL

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

3)2763

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 4	ABORATORY ARTIFACT	== ===================================	5.66	====
2				
		_		
3:				
				
· -				
		_		
		- .		
:				
•		-	<u></u> .	
:				
		-		
		_		
		_		
•				

FORM I VOA-TIC

CLIENT SAMPLE NO.

FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

GW-MW08

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812

Matrix: (soil/water) WATER Lab Sample ID: T2812-4

Sample wt/vol: 5 (g/ml) ML Lab File ID: T2812-4RA52

Level: (low/med) LOW Date Received: 01/08/03

% Moisture: not dec. ____ Date Analyzed: 01/14/03

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

ug/Kg) ug/L 3/22/57

		- 1	7	2.
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	LABORATORY ARTIFACT	16.22	35.14	JB
2.	LABORATORY ARTIFACT	17.40	14:42	
	DADOIGHORI ARTITAGE	T 17.40	17.72	UB
3		_		l
ξ'				
5.		_		i
· ·		_		
<i>'</i> .		_		
U .				l
<i>.</i> .		- .		l
		_		
		_ .		
4.				l
.J.				
		_		
. O •				
- <i>l</i> •				
.9.				
20.				l ——-
Ί.				l — —
22.		_		l
		-		
24.				
25.		-		l —
26.		- 		i
7.		- 		<u> </u>
27.		— -		
9.		-ll		
30.				ļ
··				
	<u> </u>			l

FORM I VOA-TIC

FORM 1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT	SAMPLE	NO.
l'		

		TEN	TATIVELY IDENTIFIE	ED COMPOUN	DS		CH MHOO
Lab	Name:	COMPUCHEM		Contract:	8260B	_	GW-MW09
Lab	Code:	LIBRTY	Case No.:	SAS No.:		SDG N	Jo.: T2812
Mati	rix: (s	soil/water)	WATER		Lab Sample	ID:	T2812-11

Sample wt/vol: 5 (q/ml) ML Lab File ID: T2812-11A52 (low/med) LOW Level: Date Received: 01/10/03 % Moisture: not dec. _____ Date Analyzed: 01/16/03

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Aliquot Volume: ____(uL Soil Extract Volume: (uL)

CONCENTRATION UNITS: -Number TICs found: 1 (ug/L or ug/Kg) ug/L

3/27/3

1. LABORATORY ARTIPACT 16.22 5.60 JB 2	 CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
2.	1.				JB
4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29.					_
6	3				
6	4				
7	- ·				
8					-
9.	·				_
10.					
12					
12	J				
3 .					
4. 5. 6. 7. 8. 9. 0. 1. 2. 3. 4. 5. 6. 7. 8. 9.			_ .	 	
5.	· · ·		_ -		
6		-			
7. 8. 9. 0. 1. 2. 3. 4. 5. 6. 7. 8. 9. 9. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.					
8	7 -		- -		
9.	3.		— ·		
0.	9.		- -		
1 ·).		— ·		
2	L.				
4	2.				
5. 6. 7. 8. 9.	3				-
6	ł				-
8. 9.					
8. 9.	5.				
9.	/ .				
9	·				
	·				

FORM I VOA-TIC

CLIENT SAMPLE NO.

						į.	GTT 16774 A	- 1
Lab Name: COMPUCHEM			C	Contract: 82	260B	_	GW-MW10	
Lab Code: LIBRTY	Case No	.:		SAS No.:		SDG 1	No.: T2812	
<pre>Matrix: (soil/water)</pre>	WATER			Lal	o Sample	ID:	T2812-6	
Sample wt/vol:	5	(g/ml)	ML	Lal	o File I	D:	T2812-6RA52	

Level: (low/med) LOW Date Received: 01/09/03 % Moisture: not dec. Date Analyzed: 01/16/03 GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: ____(uL

CONCENTRATION UNITS: Number TICs found: 2

Number TICs four	nd: 2 CONCI	ENTRATION UN L or ug/Kg)	IITS: ug/L	3/2	As
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
1. 2. 3.	LABORATORY ARTIFACT LABORATORY ARTIFACT	16.24	20.13		_
4. 5. 6.					
7					
10. 11. 12.					
14.					
15. 16. 17.					
18. 19. 20.					
22.					
25. 26.					
27. 28. 29.					
30.					

FORM I VOA-TIC

CLIENT SAMPLE NO.

GW-MW11

Lab Name:	COMPUCHEM
-----------	-----------

Contract: 8260B

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: T2812

Matrix: (soil/water) WATER

Lab Sample ID: T2812-7

Sample wt/vol:

5

Lab File ID:

T2812-7A52

Level:

(low/med) LOW

(g/ml) ML

Date Received: 01/09/03

% Moisture: not dec.

Date Analyzed: 01/15/03

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: ____(uL

Number TICs found: 2

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

3/2763

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
** ******	-			_
1.	LABORATORY ARTIFACT	16.22	35.74	JB
2. 3.	LABORATORY ARTIFACT	17.40	6.95	J₿
		_		
4		_		
5				_
0.		_		
<i>'</i> •		_		
8.				
10				
11.				
12.		_		
12		_		
13.				
14.				
TO.				
- 0 •				
± J •				
20.				
21.			····	
44.				
		-		
Z4.		- -		
2 3.				
		- -	· · ·	
		- -	******	
		- -		
49.		-		
30.		- -		
		- -		

FORM I VOA-TIC

Lab Name: COMPUCHEM

CLIENT SAMPLE NO.

TRIPBLANK 1-7

Ish Codo, IIDDTV	Cago No	CAC No	and II.	mo 0 1 0

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812

Matrix: (soil/water) WATER Lab Sample ID: T2812-5

Sample wt/vol: 5 (g/ml) ML Lab File ID: T2812-5R2A52

Contract: 8260B

Level: (low/med) LOW Date Received: 01/08/03

% Moisture: not dec. _____ Date Analyzed: 01/15/03

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

3/22/03

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q =====
1.	LABORATORY ARTIFACT	16.24	12.15	JB
2			==,==	-
3.				
* •				
5				
ь.		— I ———		
7.				
8.				
9.				
10.				
* * * *				
4 4 •				
13.		[
14.		—		
15				
16.			· · · · · · · · · · · · · · · · · · ·	
17.	-			
18	-			
18.				
20.	_			
21.	_			
22'				
22.				
23.				
24.	_			
2 J.				
20.	-			
21.				
40.				
49.				
30.				
	· ··-			

FORM I VOA-TIC

CLIENT SAMPLE NO.

SDG No.: T2812

TRIPBLANK 1-8

Lab Name: COMPUCHEM

Lab Code: LIBRTY Case No.:

Contract: 8260B

SAS No.:

Matrix: (soil/water) WATER Lab Sample ID: T2812-10

Sample wt/vol: 5 (g/ml) ML Lab File ID: T2812-10A52

Level: (low/med) LOW Date Received: 01/09/03

% Moisture: not dec. Date Analyzed: 01/15/03

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: ____(uL

CONCENTRATION UNITS: Number TICs found: 1 (ug/L or ug/Kq) ug/L

apalis

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	LABORATORY ARTIFACT	16.22	12.36	JB
3.		-		
5.				
b.				
7.		-		-
9.				-
3.		_		
4.				
.6.		_		
8.				
9.		_		
1 .				
2.		_ .		
4.				
5. 6.		- -	·	
8.				
9				

FORM I VOA-TIC

CLIENT SAMPLE NO.

TENTATIVELY IDENTIFIED	
Lab Name: COMPUCHEM	Contract: 8260B TRIPBLANK 1-9
Lab Code: LIBRTY Case No.:	SAS No.: SDG No.: T2812
Matrix: (soil/water) WATER	Lab Sample ID: T2812-15
Sample wt/vol: 5 (g/ml) ML	Lab File ID: T2812-15A52
Level: (low/med) LOW	Date Received: 01/10/03
Moisture: not dec.	Date Analyzed: 01/15/03
GC Column: EQUITY624 ID: 0.53 (mm)	Dilution Factor: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Volume:(uL
Number TICs found: 1	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

(ug/L or ug/kg) ug/L 3/2243 CAS NUMBER COMPOUND NAME RT EST. CONC. _______ _____ LABORATORY ARTIFACT 16.23 12.43 JB 2._ 5.___ 7.___ 8.__ 9.___ 10.____ 11.____ 12.____ 13. 14.____ 15.____ 16.___ 17.____ 19.__ 20.____ 21.___ 23.__ 24.____

FORM I VOA-TIC

25. ____ 26. ___ 27. ___ 28. ___ 29. ___ 30. ___

CLIENT SAMPLE NO.

ER-SS-010803

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: T2812

Matrix: (soil/water) WATER

Lab Sample ID: T2812-9

Sample wt/vol: 1000 (g/mL) ML

Lab File ID:

T2812-9JA64

Level: (low/med) LOW

Date Received: 01/09/03

% Moisture: _____ decanted: (Y/N)____

Date Extracted:01/09/03

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 01/10/03

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION (ug/L or ug/L	N UNITS: Kg) UG/L	Q
100-52-7 108-95-2 111-44-4 95-57-8 95-48-7 108-60-1 98-86-2 106-44-5 621-64-7 98-95-3 78-59-1 88-75-5 105-67-9 111-91-1 120-83-2 91-20-3 106-47-8 87-68-3 105-60-2 91-57-6 77-47-4 88-06-2 91-58-7 91-58-7 91-58-7 88-74-4 131-11-3	BenzaldehydePhenolBis (2-chloroeth2-Chlorophenol2,2'-oxybis (1-CAcetophenone4-MethylphenolN-Nitroso-di-NHexachloroethanIsophorone2,4-DimethylpheBis (2-chloroeth2,4-Dichlorophe2,4-DichloropheAcetophenol2,4-Dichlorophe2,4-Dichlorophe2,4-Dichlorophe2,4-Dichlorophe2,4-Dichlorophe2,4-Dichlorophe2,4-Dichlorophe2,4-Dichlorophe	propylamine e nol oxy)methane nol iene ylphenol lene pentadiene phenol phenol lene	Mg) UG/L 10 10 10 10 10 10 10 10 10 10 10 10 10	ממממממממממממממממממממממ
99-09-2	Acenaphthylene 3-Nitroaniline Acenaphthene	SV	10 20 10	U U U 82700

CLIENT SAMPLE NO.

ER-SS-010803

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: T2812

Matrix: (soil/water) WATER

CONCENTRATION UNITS:

Lab Sample ID: T2812-9

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: T2812-9JA64

Level: (low/med) LOW

Date Received: 01/09/03

% Moisture: ____ decanted: (Y/N)___

Date Extracted:01/09/03

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 01/10/03

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND		ATION UNITS: ug/Kg) UG/L		Q
51-28-5	2,4-Dinitroph	enol		50	U
121-14-2	2,4-Dinitroto	Tuono		20	U
132-64-9	Dibenzofuran	Tuene		10	U
84-66-2	Diethylphthal			10	U
7005-72-3	4-Chloropheny	ace		10	U
86-73-7	Fluorene	1-buenArerue	r_	10	U
100-01-6	4-Nitroanilin			10	U
534-52-1	4.6-Dinitro-2	e 	,	20	ַ
86-30-6	N-Nitrosodiph	-metnyipneno.	'	20	ַ ט
101-55-3	4-Bromophenyl	enyramine (1	/	10	ט
118-74-1	Hexachloroben	-buenAterner		10	U
1912-24-9	Atrazine	zene		10	ַ
87-86-5	Pentachloroph			10	U
85-01-8	Phenanthrene	enor		10	U
120-12-7-	Anthracene			10	ן ט
86-74-8	Carbazole	-		10	ט [
84-74-2	Di-n-butylpht	halata		10	U
206-44-0	Fluoranthene	narate		10	ן ט
129-00-0	Pyrone			10	ן ט
85-68-7	Butylbenzylph	t balaba		10	ן טן
91-94-1	3,3'-Dichloro	Lnarace		10	U
117-81-7	bis(2-ethylhe	benziaine		10	ען י
56-55-3	Benzo(a)anthr	xyı) Putnatate	<u>-</u>	10	[U
218-01-9	Chrysene	acene		10	U
117-84-0	Di-n-octylpht	halata		10	U
205-99-2	Benzo(b)fluor	narate		10	ן ט
207-08-9	Benzo(k)fluor	anthene		10	ן טן
50-32-8	Benzo(a)pyren	anthene		10	U
193-39-5	Indeno (1, 2, 3-	e - 31		10	ן ט
53-70-3	Dibenzo(a,h) an	ca/pyrene		10	U
191-24-2	Benzo(g,h,i)p	nunracene		10	U
				10	ט
(1) - Cannot be	separated from D	iphenylamine	—— I ———————		1
	FORM	r sv 1			82
					52

8270C

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM Method: 8270C ER-SS-010903

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812

Matrix: (soil/water) WATER Lab Sample ID: T2812-14

Sample wt/vol: 1000 (g/mL) ML Lab File ID: T2812-14A64

Level: (low/med) LOW Date Received: 01/10/03

% Moisture: ____ decanted: (Y/N) ___ Date Extracted:01/10/03

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/12/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q 100-52-7-----Benzaldehyde 10 U 108-95-2-----Phenol 10 U 111-44-4-----Bis(2-chloroethyl)ether 10 U 95-57-8----2-Chlorophenol 10 U 95-48-7----2-Methylphenol 10 U 108-60-1----2,2'-oxybis(1-Chloropropane) 10 U 98-86-2-----Acetophenone 10 U 106-44-5-----4-Methylphenol 10 Ŭ 621-64-7----N-Nitroso-di-N-propylamine 10 U 67-72-1------Hexachloroethane 10 U 98-95-3-----Nitrobenzene_ 10 U 78-59-1-----Isophorone U 10 88-75-5----2-Nitrophenol U 10 105-67-9-----2,4-Dimethylphenol 10 U 111-91-1-----Bis(2-chloroethoxy)methane_ 10 U 120-83-2----2,4-Dichlorophenol 91-20-3-----Naphthalene 10 U U 10 106-47-8-----4-Chloroaniline 10 U 87-68-3-----Hexachlorobutadiene U 10 105-60-2-----Caprolactam 10 U 59-50-7-----4-Chloro-3-methylphenol 10 U 91-57-6-----2-Methylnaphthalene 10 U 10 U 10 U 10 U 10 U 10 U 88-74-4-----2-Nitroaniline 20 U 131-11-3-----Dimethylphthalate 10 שו 606-20-2----2,6-Dinitrotoluene 10 U 208-96-8-----Acenaphthylene 10 U 99-09-2-----3-Nitroaniline__ 20 U 83-32-9-----Acenaphthene U 10 FORM I SV 8270C

CONCENTRATION UNITS:

CLIENT SAMPLE NO.

ER-SS-010903

T2812-14A64

0

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812

Matrix: (soil/water) WATER

Lab Sample ID: T2812-14

Sample wt/vol: 1000

1000 (g/mL) ML Lab File ID:

Level: (low/med) LOW Date Received: 01/10/03

% Moisture: _____ decanted: (Y/N) ___ Date Extracted:01/10/03

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/12/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO. COMPOUND CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

			1
51-28-52,4-Dinitrophenol	50	U	1
100-02-74-Nitrophenol	20	Ū	
121-14-22,4-Dinitrotoluene	10	Ŭ	
132-64-9Dibenzofuran	10	Ü	
84-66-2Diethylphthalate	10	บั	
7005-72-34-Chlorophenyl-phenylether	10	ΰ	1
86-73-7Fluorene —	10	Ŭ	}
100-01-64-Nitroaniline	20	บั	
534-52-14,6-Dinitro-2-methylphenol	20	Ü	
86-30-6N-Nitrosodiphenylamine (1)	10	ŭ	
101-55-34-Bromophenvl-phenvlether	10	Ü	
118-74-1Hexachlorobenzene	10	บั	
1912-24-9Atrazine	10	U R	Landa
87-86-5Pentachlorophenol	10	บั	3/110
85-01-8Phenanthrene	10	บั	
120-12-7Anthracene	10	Ŭ	
86-74-8Carbazole	10	Ŭ	
84-74-2Di-n-butylphthalate	10	מ	
206-44-0Fluoranthene	10	i I	
129-00-0Pyrene	10	U U	
85-68-7Butylbenzylphthalate	10	บ็	
91-94-13,3'-Dichlorobenzidine	1		
117-81-7bis (2-ethylhexyl) Phthalate	10	Ŭ	
56-55-3Benzo(a)anthracene	10	U	
218-01-9Chrysene		U	
117-84-0Di-n-octylphthalate	10	Ŭ	
205-99-2Benzo(b) fluoranthene	10	Ŭ	
207-08-9Benzo(k) fluoranthene	10	ָָדַ ן	
50-32-8Benzo (a) pyrene	10	Ŭ	
193-39-5Indeno(1,2,3-cd)pyrene		ָטָ	
53-70-3Dibenzo(a, h) anthracene		טַ	
191-24-2Benzo(g,h,i)perylene		ū	
zemo (3/11/1/Perlite	10	U	
- Cannot be separated from Diphenylamine	l		

Cannot be separated from Diphenylamine FORM I SV

8270C

Lab Name: COMPUCHEM Method: 8270C GW-MW01

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812

Matrix: (soil/water) WATER Lab Sample ID: T2812-1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: T2812-1A64

Level: (low/med) LOW Date Received: 01/08/03

% Moisture: ____ decanted: (Y/N) ___ Date Extracted:01/08/03

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/09/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q 100-52-7----Benzaldehyde____ 10 U 108-95-2----Phenol 10 U 111-44-4-----Bis(2-chloroethyl)ether 10 U 95-57-8-----2-Chlorophenol 95-48-7-----2-Methylphenol 108-60-1-----2,2'-oxybis(1-Chloropropane) 10 U 10 U 10 U 98-86-2-----Acetophenone 106-44-5------Nethylphenol
621-64-7-----N-Nitroso-di-N-propylamine
67-72-1--------Hexachloroethane 10 U 10 U 10 lυ 10 U 98-95-3----Nitrobenzene 10 ľŪ 10 U U 10 10 U 10 ΙU 120-83-2----2,4-Dichlorophenol 10 U 91-20-3-----Naphthalene 10 ΙU 106-47-8-----4-Chloroaniline 10 U 87-68-3-----Hexachlorobutadiene 10 U 105-60-2-----Caprolactam 10 ΙŪ 59-50-7-----4-Chloro-3-methylphenol 10 U 91-57-6----2-Methylnaphthalene 10 ΙU 77-47-4-----Hexachlorocyclopentadiene_88-06-2-----2,4,6-Trichlorophenol____ 10 U 10 U 95-95-4-----2,4,5-Trichlorophenol_ 92-52-4-----1,1'-Biphenyl U 10 10 U 91-58-7----2-Chloronaphthalene 10 U 88-74-4----2-Nitroaniline 20 U 131-11-3-----Dimethylphthalate 10 U 606-20-2-----2,6-Dinitrotoluene 10 U 208-96-8-----Acenaphthylene____ U 10 99-09-2----3-Nitroaniline 20 U 83-32-9-----Acenaphthene 10 FORM I SV <u>8</u>270C

CONCENTRATION UNITS:

GW-MW01

Method: 8270C Lab Name: COMPUCHEM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812

Matrix: (soil/water) WATER Lab Sample ID: T2812-1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: T2812-1A64

Level: (low/med) LOW Date Received: 01/08/03

% Moisture: decanted: (Y/N) Date Extracted:01/08/03

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/09/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 0 51-28-5----2,4-Dinitrophenol 50 U 100-02-7-----4-Nitrophenol 20 U 121-14-2----2, 4-Dinitrotoluene 10 U 132-64-9-----Dibenzofuran 10 U 84-66-2-----Diethylphthalate 10 U 7005-72-3----4-Chlorophenyl-phenylether 10 U 86-73-7-----Fluorene 10 U 100-01-6----4-Nitroaniline 20 U 534-52-1----4,6-Dinitro-2-methylphenol 20 U 86-30-6-----N-Nitrosodiphenylamine_(1) U 10 101-55-3-----4-Bromophenyl-phenylether 10 U 118-74-1-----Hexachlorobenzene 1.0 U 1912-24-9-----Atrazine 10 U 87-86-5-----Pentachlorophenol U 10 85-01-8-----Phenanthrene U 10 120-12-7------Anthracene U 10 86-74-8-----Carbazole 10 U 84-74-2-----Di-n-butylphthalate U 10 206-44-0-----Fluoranthene U 10 129-00-0-----Pyrene U 10 85-68-7-----Butylbenzylphthalate U 10 91-94-1-----3,3'-Dichlorobenzidine 10 U 117-81-7-----bis(2-ethylhexyl)Phthalate_ 10 U 56-55-3-----Benzo(a)anthracene U 10 218-01-9-----Chrysene U 10 10 U 10 U 207-08-9-----Benzo(k)fluoranthene_ 10 U 50-32-8-----Benzo (a) pyrene 10 Ū 193-39-5-----Indeno(1,2,3-cd)pyrene 53-70-3------Dibenzo(a,h)anthracene U 10 10 U 191-24-2----Benzo(g,h,i)perylene 10 ľŪ (i) - Cannot be separated from Diphenylamine

FORM I SV

CLIENT SAMPLE NO.

GW-MW02

b Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812

Matrix: (soil/water) WATER Lab Sample ID: T2812-2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: T2812-2JA64

Level: (low/med) LOW Date Received: 01/08/03

% Moisture: _____ decanted: (Y/N) ___ Date Extracted:01/08/03

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/09/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND (ug/L or ug/.	kg) UG/L	<u>, , , , , , , , , , , , , , , , , , , </u>
300 53 7	Benzaldehyde	10	U
100-52-7-2-	-Phonol	10	Ū
108-95-2	Bis(2-chloroethyl)ether	10	lΰ
111-44-4	2-Chlorophenol	10	Ū
95-57-8	2-Met hylphenol	10	U I
95-48-7	2-Methylphenol (1-Chloropropane)	10	ا آ
108-60-1	Acetophenone	10	Ū
98-86-2	4 Mothylphonol	10	ا ت
106-44-5	4-Methylphenol	10	lŭ l
621-64-7	N-Nitroso-di-N-propylamine	10	lŭ
67-72-1	Hexachloroethane	10	ŭ
	Nitrobenzene	10	Ü
78-59-1	Isophorone	10	บ็
88-75-5	2-Nitrophenol		
105-67-9	2,4-Dimethylphenol	10	Ų.
111-91-1	Bis(2-chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	Ü
106-47-8	4-Chloroaniline	10	Ü
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	ע
88-06-2	2,4,6-Trichlorophenol	10	ן ט
95-95-4	2,4,5-Trichlorophenol	10	U
92-52-4	1,1'-Biphenyl	10	ן ט
91-58-7	2-Chloronaphthalene	10	ן ט
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	ן ט
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	20	ע
83-32-9	Acenaphthene	10	ט
00 04 0			
	FORM I SV	I	-' 8 270

(i) - Cannot be separated from Diphenylamine

FORM I SV

CLIENT SAMPLE NO.

GW-MW02 Lab Name: COMPUCHEM Method: 8270C Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812 Matrix: (soil/water) WATER Lab Sample ID: T2812-2 Sample wt/vol: 1000 (g/mL) ML Lab File ID: T2812-2JA64 Level: (low/med) Date Received: 01/08/03 % Moisture: decanted: (Y/N)_ Date Extracted:01/08/03 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/09/03 Injection Volume: 1.0(uL) Dilution Factor: 1.0 GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q 51-28-5-----2,4-Dinitrophenol____ 100-02-7-----4-Nitrophenol 50 U 121-14-2----2,4-Dinitrotoluene 20 U 132-64-9-----Dibenzofuran 10 U 84-66-2----Diethylphthalate 10 U 7005-72-3----4-Chlorophenyl-phenylether 10 U 86-73-7-----Fluorene 10 U 100-01-6----4-Nitroaniline 10 U 534-52-1-----4,6-Dinitro-2-methylphenol 20 U 86-30-6-----N-Nitrosodiphenylamine (1) U 20 101-55-3----4-Bromophenyl-phenylether U 10 118-74-1-----Hexachlorobenzene U 10 1912-24-9-----Atrazine 10 U 3/2763 87-86-5-----Pentachlorophenol R 10 U 85-01-8-----Phenanthrene 10 U 120-12-7-----Anthracene_ 10 U 86-74-8------Carbazole 10 U 84-74-2-----Di-n-butylphthalate 10 U 206-44-0----Fluoranthene 10 U 129-00-0----Pyrene 10 U 85-68-7-----Butylbenzylphthalate 91-94-1----3,3'-Dichlorobenzidine 10 U 10 U 117-81-7-----bis(2-ethylhexyl)Phthalate_ 10 U 56-55-3-----Benzo(a)anthracene 10 U 218-01-9-----Chrysene 10 U 117-84-0------Di-n-octylphthalate 205-99-2-----Benzo(b) fluoranthene 10 U 10 U 207-08-9----Benzo(k)fluoranthene 10 U 50-32-8-----Benzo(a)pyrene 10 U 193-39-5-----Indeno(1,2,3-cd)pyrene 53-70-3-----Dibenzo(a,h)anthracene 10 U 10 U 191-24-2----Benzo(g,h,i)perylene_ 10 U

8270C

10

U

GW-MW02-D

Lab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812

Matrix: (soil/water) WATER Lab Sample ID: T2812-3

Sample wt/vol: 1000 (g/mL) ML Lab File ID: T2812-3A64

Level: (low/med) LOW Date Received: 01/08/03

% Moisture: ____ decanted: (Y/N)___ Date Extracted:01/08/03

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/09/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

COMPOUND

GPC Cleanup: (Y/N) N pH: ____

83-32-9-----Acenaphthene

CAS NO.

(ug/L or ug/Kg) UG/L Q 100-52-7----Benzaldehyde 10 U 108-95-2----Phenol 10 U 111-44-4-----Bis(2-chloroethyl)ether 10 U 95-57-8----2-Chlorophenol 10 U 95-48-7----2-Methylphenol U 10 108-60-1----2,2'-oxybis(1-Chloropropane) U 10 98-86-2-----Acetophenone 10 U 106-44-5-----4-Methylphenol 10 U 621-64-7----N-Nitroso-di-N-propylamine 10 U 67-72-1-----Hexachloroethane 10 U 98-95-3-----Nitrobenzene 10 U 78-59-1-----Isophorone 10 U 88-75-5----2-Nitrophenol 10 U 105-67-9-----2,4-Dimethylphenol 10 U 111-91-1-----Bis (2-chloroethoxy) methane 10 U 120-83-2----2,4-Dichlorophenol U 10 91-20-3-----Naphthalene 10 U 106-47-8-----4-Chloroaniline 10 U 87-68-3------Hexachlorobutadiene 10 U 105-60-2------Caprolactam
59-50-7-----4-Chloro-3-methylphenol U 10 U 10 U 10 10 טו 10 U 10 U 10 U 10 U 88-74-4----2-Nitroaniline 20 U 131-11-3-----Dimethylphthalate 10 U 606-20-2-----2,6-Dinitrotoluene 208-96-8------Acenaphthylene 10 U ĺυ 10 99-09-2----3-Nitroaniline___

FORM I SV

CONCENTRATION UNITS:

<u>8</u>270C

ľŪ

20

10 lυ

CLIENT SAMPLE NO.

GW-MW02-D

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.:

SDG No.: T2812

Matrix: (soil/water) WATER

Lab Sample ID: T2812-3

Sample wt/vol: 1000 (g/mL) ML Lab File ID: T2812-3A64

Level: (low/med) LOW

Date Received: 01/08/03

% Moisture: ____ decanted: (Y/N)___ Date Extracted:01/08/03

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/09/03

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

CONCENTRATION UNITS:

GPC Cleanup: (Y/N) N pH: ___

	CAS NO.	COMPOUND	CONCENTRATION UNI	ITS: JG/L	Q	
(1)	100-02-7 121-14-2 132-64-9 84-66-2 7005-72-3 86-73-7 100-01-6 534-52-1 86-30-6 101-55-3 118-74-1 1912-24-9 85-86-5 85-01-8 120-12-7 86-74-8 129-00-0 85-68-7 117-81-7 117-81-7 117-81-7 205-99-2 207-08-9 117-84-0 205-99-2 207-08-9 117-84-0 205-99-2 207-08-9 117-84-0 205-99-2 207-08-9 117-84-0 205-99-2 207-08-9 117-84-0 205-99-2 207-08-9 117-84-0 205-99-2 207-08-9 117-84-0 205-99-2 207-08-9 117-84-0 205-99-2 207-08-9 117-84-0 205-99-2 207-08-9 207-08-9 193-39-5 191-24-2	2,4-Dinitropher4-Nitrophenol2,4-DinitrotoluDibenzofuranDibenzofuranDiethylphthalat4-ChlorophenylFluorene4-Nitroaniline4,6-Dinitro-2-mN-Nitrosodipher4-Bromophenyl-pHexachlorobenzeAtrazinePentachlorophenPhenanthreneCarbazoleDi-n-butylphthaFluoranthenePyreneButylbenzylphth3,3'-Dichlorobebis(2-ethylhexyBenzo(a)anthracChryseneDi-n-octylphthaBenzo(b)fluoranBenzo(b)fluoranBenzo(a)pyreneIndeno(1,2,3-cdDibenzo(a,h)antBenzo(g,h,i)per separated from Diples	methylphenol nylamine (1) phenylether nol nol nlate nol nlate nol nlate nzidine nl) Phthalate ene late thene thene hene henylamine henylamine	10 10		3/27/3
		FORM I	۵v		82	70C

GW-MW03 Method: 8270C b Name: COMPUCHEM

SDG No.: T2812 SAS No.: Lab Code: LIBRTY Case No.:

Lab Sample ID: T2812-16 Matrix: (soil/water) WATER

Sample wt/vol: 1000 (g/mL) ML Lab File ID: T2812-16A64

Date Received: 01/15/03 Level: (low/med) LOW

% Moisture: ____ decanted: (Y/N)___ Date Extracted:01/17/03

1000(uL) Date Analyzed: 01/19/03 Concentrated Extract Volume:

Dilution Factor: 1.0

Injection Volume: 1.0(uL) pH: ____

GPC Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/I, or ug/Kg) IIG/I CAC NO COMPOUND

CAS NO.	COMPOUND	(ug/L or	ug/Kg)	OG/T	Q	
100-52-7	Benzaldehyde			10	U	
108-95-2	Phenol			10	U	- 1
111-44-4	Bis(2-chloroet	hvl)ether		10	U	ľ
95-57-8	2-Chlorophenol			10	U	j
95-48-7	2-Methylphenol			10	Ū	
108-60-1	2,2'-oxybis(1-	Chloropropan	e)	10	U	
98-86-2	Acetophenone		- /	10	U	1
106-44-5	4-MethylphenoI			10	Ū	- 1
621-64-7	N-Nitroso-di-N	-propylamine	<u> </u>	10	Ū	ļ
67-79-1	Hexachloroetha	ne		10	ΙŪ	1
	Nitrobenzene			10	Ū	- 1
	Isophorone			10	Ū	
98-75-5	2-Nitrophenol			10	Ü	
105-67-0	2,4-Dimethylph	enol		10	Ü	
111.01.1	Bis(2-chloroet	hovy methane		10	Ū	
120 02-2	2,4-Dichloroph	anol	— I	10	Ŭ	i
01 20 3-2	Naphthalene			10	Ŭ	
106 47 0	4-Chloroanilin			10	บั	
07 60 2	Hexachlorobuta	diene		10	บั	İ
105 60 3	Caprolactam	diche		10	Ιŭ	1
50 50 7	4-Chloro-3-met	hylphenol		10	Ιŭ	
01 57 6	2-Methylnaphth	alana	—-I	10	υ	- 1
77 47 4	Hexachlorocycl	opent adjene		10	ϋ	
	2,4,6-Trichlor		 :}	10	Ü	
	2,4,5-Trichlor		—-	10	υ	
73-73-4	1,1'-Biphenyl	obitemor		10	บี	
74~74~~~~	2-Chloronaphth	alene		10	บั	
31-30-1	2-Chioronaphen	1016 TO	<u></u>	20	Ιŭ	1
				10	บี	
131-11-3	Dimethylphthal	ale		10	שׁ	
000-20-2	2,6-Dinitrotol	uene		10	บี	
	Acenaphthylene				ΠΩ	- 1
	3-Nitroaniline		<u></u>	20	Ü	
83-32-9	Acenaphthene_			10	١٠	
	FORM I	SV			-	827

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM GW-MW03 Method: 8270C Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812 Matrix: (soil/water) WATER Lab Sample ID: T2812-16 Sample wt/vol: 1000 (g/mL) ML Lab File ID: T2812-16A64 Level: (low/med) LOW Date Received: 01/15/03 % Moisture: decanted: (Y/N)__ Date Extracted:01/17/03 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/19/03 Injection Volume: 1.0(uL) Dilution Factor: 1.0 GPC Cleanup: (Y/N) N pH: ___ CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 0 51-28-5-----2,4-Dinitrophenol____ 100-02-7-----4-Nitrophenol 50 121-14-2----2,4-Dinitrotoluene 20 U 132-64-9-----Dibenzofuran 10 U 84-66-2-----Diethylphthalate 10 U 7005-72-3-----4-Chlorophenyl-phenylether_ 10 U 86-73-7-----Fluorene 10 100-01-6----4-Nitroaniline 10 U 534-52-1-----4,6-Dinitro-2-methylphenol 20 U 86-30-6-----N-Nitrosodiphenylamine (1) 20 U 101-55-3----4-Bromophenyl-phenylether_ 10 U 118-74-1-----Hexachlorobenzene_ 10 U 1912-24-9-----Atrazine 10 U 87-86-5-----Pentachlorophenol ŬR 10 85-01-8-----Phenanthrene 10 U 120-12-7-----Anthracene 10 U 86-74-8------Carbazole 10 U 84-74-2-----Di-n-butylphthalate_ 10 U 206-44-0-----Fluoranthene 10 U 129-00-0-----Pyrene 10 U 85-68-7-----Butylbenzylphthalate
91-94-1-----3,3'-Dichlorobenzidine
117-81-7------bis(2-ethylhexyl)Phthalate 10 U 10 Ū 10 U 56-55-3-----Benzo(a)anthracene_ 10 U 218-01-9-----Chrysene 10 U 10 U 10 U 207-08-9-----Benzo(k) fluoranthene 10 U 50-32-8-----Benzo (a) pyrene 10 U 193-39-5----Indeno(1,2,3-cd)pyrene 10 U 53-70-3-----Dibenzo(a,h)anthracene 10 U 191-24-2----Benzo(g,h,i)perylene 10 U 10 U (i) - Cannot be separated from Diphenylamine

FORM I SV

GW-MW05 Method: 8270C ab Name: COMPUCHEM

SDG No.: T2812 Case No.: SAS No.: Lab Code: LIBRTY

Lab Sample ID: T2812-12 Matrix: (soil/water) WATER

T2812-12A64 1000 (g/mL) ML Lab File ID: Sample wt/vol:

Date Received: 01/10/03 Level: (low/med) LOW

Date Extracted:01/10/03 % Moisture: decanted: (Y/N)

Date Analyzed: 01/12/03 Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0 Injection Volume: 1.0(uL)

pH: ____

GPC Cleanup: (Y/N) N

CONCENTRATION UNITS: Q (ug/L or ug/Kg) UG/L CAS NO. COMPOUND

10 U 100-52-7----Benzaldehyde 108-95-2----Phenol 10 U 111-44-4-----Bis(2-chloroethyl)ether 10 U 10 U 95-57-8----2-Chlorophenol_ U 95-48-7----2-Methylphenol 10 108-60-1----2,2'-oxybis(1-Chloropropane) U 10 10 U 98-86-2-----Acetophenone 10 U 106-44-5----4-Methylphenol 10 U 621-64-7----N-Nitroso-di-N-propylamine 10 U 67-72-1-----Hexachloroethane 10 U 98-95-3-----Nitrobenzene 78-59-1-----Isophorone 10 U 10 U 88-75-5----2-Nitrophenol 105-67-9----2,4-Dimethylphenol 10 U 111-91-1-----Bis(2-chloroethoxy)methane U 10 U 10 120-83-2----2,4-Dichlorophenol 91-20-3-----Naphthalene 10 U U 106-47-8-----4-Chloroaniline 10 87-68-3------Hexachlorobutadiene 10 U U 10 105-60-2-----Caprolactam U 59-50-7-----4-Chloro-3-methylphenol_ 10 U 91-57-6----2-Methylnaphthalene 10 U 77-47-4------Hexachlorocyclopentadiene_ 10 88-06-2----2,4,6-Trichlorophenol 95-95-4----2,4,5-Trichlorophenol 92-52-4----1,1'-Biphenyl U 10 Ų 10 U 10 U 91-58-7----2-Chloronaphthalene 10 U 20 88-74-4----2-Nitroaniline U 10 131-11-3-----Dimethylphthalate_ 606-20-2----2,6-Dinitrotoluene 10 U 10 U 208-96-8-----Acenaphthylene 99-09-2-----3-Nitroaniline 20 U 83-32-9-----Acenaphthene 10 U FORM I SV 8270C

CLIENT SAMPLE NO.

GW-MW05 Lab Name: COMPUCHEM Method: 8270C Lab Code: LIBRTY

Case No.: SAS No.: SDG No.: T2812

Matrix: (soil/water) WATER Lab Sample ID: T2812-12

Sample wt/vol: 1000 (g/mL) ML Lab File ID: T2812-12A64

Level: (low/med) LOW Date Received: 01/10/03

% Moisture: decanted: (Y/N) Date Extracted:01/10/03

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/12/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 0 51-28-5-----2,4-Dinitrophenol____ 100-02-7----4-Nitrophenol 50 U 121-14-2----2,4-Dinitrotoluene 20 U 132-64-9-----Dibenzofuran 10 U 84-66-2-----Diethylphthalate 10 U 7005-72-3----4-Chlorophenyl-phenylether 10 U 86-73-7----Fluorene 10 U 100-01-6-----4-Nitroaniline 10 U 534-52-1-----4,6-Dinitro-2-methylphenol 20 U 86-30-6-----N-Nitrosodiphenylamine_(1)_ 20 U 101-55-3----4-Bromophenyl-phenylether 10 U 118-74-1-----Hexachlorobenzene 10 IJ 10 U 1912-24-9-----Atrazine 87-86-5-----Pentachlorophenol R 10 U 85-01-8-----Phenanthrene 10 U 120-12-7-----Anthracene_ 10 U 86-74-8------Carbazole 10 U 84-74-2-----Di-n-butylphthalate 10 U 206-44-0-----Fluoranthene_ 10 U 129-00-0-----Pyrene 10 U 85-68-7-----Butylbenzylphthalate 91-94-1-----3,3'-Dichlorobenzidine 10 U 10 U 117-81-7-----bis(2-ethylhexyl)Phthalate 10 U 56-55-3-----Benzo(a)anthracene_ 10 Ū 218-01-9-----Chrysene 10 U 117-84-0-----Di-n-octylphthalate 10 U 205-99-2----Benzo(b) fluoranthene 10 U 207-08-9-----Benzo(k)fluoranthene 10 U 50-32-8-----Benzo(a)pyrene 10 U 193-39-5-----Indeno(1,2,3-cd)pyrene 10 U 53-70-3-----Dibenzo(a,h)anthracene 10 U 191-24-2----Benzo(g,h,i)perylene 10 U 10 U (i) - Cannot be separated from Diphenylamine FORM I SV

GW-MW06

Lab Name: COMPUCHEM Method: 8270C Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812

Matrix: (soil/water) WATER Lab Sample ID: T2812-13

Sample wt/vol: 1000 (q/mL) ML Lab File ID: T2812-13A64

Level: (low/med) LOW Date Received: 01/10/03

% Moisture: ____ decanted: (Y/N)___ Date Extracted:01/10/03

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/12/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

pH: ____

GPC Cleanup: (Y/N) N

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde		10	U
108-95-2			10	υ
111-44-4	Bis(2-chloroeth	vI)ether	10	Ü
95-57-8	2-Chlorophenol	7 - , 0 0 110 2	10	Ü
95-48-7	2-Methylphenol		10	Ü
108-60-1	2,2'-oxybis(1-C	hloropropanel	10	ן ט
98-86-2	Acetophenone	meropropune,	10	υ
106-44-5	4-Methylphenol		10	U U
621-64-7	N-Nitroso-di-N-	propylamine	10	υ
67-72-1	Hexachloroethan	e	10	ן ט
98-95-3	Nitrobenzene		10	lü l
78-59-1	Isophorone		10	υ
88-75-5	2-Nitrophenol		10	ا تا
105-67-9	2,4-Dimethylphe	nol	10	ŭ
111-91-1	Bis(2-chloroeth	Oxy met hane	10	ט l
120-83-2	2,4-Dichlorophe	noi	10	ŭ
91-20-3	Naphthalene		10	lŭ l
106-47-8	4-Chloroaniline		10	מ
87-68-3	Hexachlorobutad	iene	10	
105-60-2	Caprolactam		10	U
59-50-7	4-Chloro-3-meth	vInhenol		Ü
91-57-6	2-Methylnaphtha	y i phenoi	10	Ŭ
77-47-4	Hexachlorocyclo	nentadiono	10	U
88-06-2	2,4,6-Trichloro	pencadiene	10	ū
95-95-4	2,4,5-Trichloro	phenoi	10	Ü
92-52-4	1,1'-Biphenyl	Puello1	10	Ü
91-58-7	2-Chloronaphtha.	long	10	U
88-74-4	2-Nitroaniline		10	ū
131-11-3	Dimethylphthala	F.O	20	Ü
606-20-2	2,6-Dinitrotolue	ane	10	ן ט
208-96-8	Acenaphthylene		10	ū
99-09-2	3-Nitroaniline		10	Ü
83-32-9	Acenaphthene		20	Ü
05 5 <u>2</u> 5	Acenaphenene		10	U
	FORM I S	277		II

50-32-8----Benzo (a) pyrene

193-39-5-----Indeno(1,2,3-cd)pyrene

53-70-3-----Dibenzo(a,h)anthracene

191-24-2----Benzo(g,h,i)perylene___

(i) - Cannot be separated from Diphenylamine

FORM I SV

CLIENT SAMPLE NO.

GW-MW06 Lab Name: COMPUCHEM Method: 8270C Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812 Matrix: (soil/water) WATER Lab Sample ID: T2812-13 Sample wt/vol: 1000 (g/mL) ML Lab File ID: T2812-13A64 Level: (low/med) LOW Date Received: 01/10/03 % Moisture: _____ decanted: (Y/N) Date Extracted:01/10/03 Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/12/03 Injection Volume: 1.0(uL) Dilution Factor: 1.0 GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q 51-28-5-----2,4-Dinitrophenol_ 50 U 100-02-7----4-Nitrophenol 20 U 121-14-2----2,4-Dinitrotoluene__ U 10 132-64-9-----Dibenzofuran 10 U 84-66-2-----Diethylphthalate 7005-72-3-----4-Chlorophenyl-phenylether_ 10 U 10 U 86-73-7-----Fluorene 10 U 100-01-6-----4-Nitroaniline 100-01-6-----4-Nitroaniline 534-52-1-----4,6-Dinitro-2-methylphenol 86-30-6-----Nitrosodiphenylamine (1) 20 U 20 U 10 U 101-55-3-----4-Bromophenyl-phenylether 10 U 118-74-1------Hexachlorobenzene 10 U 1912-24-9-----Atrazine UR 10 87-86-5----Pentachlorophenol 85-01-8-----Phenanthrene 10 U 10 U 120-12-7-----Anthracene_ 10 U 86-74-8-----Carbazole 84-74-2----Di-n-butylphthalate____ 10 U 10 206-44-0-----Fluoranthene___ ΙU 10 ΙŪ 129-00-0-----Pyrene 85-68-7-----Butylbenzylphthalate 10 U 91-94-1----3,3'-Dichlorobenzidine 10 U 117-81-7-----bis(2-ethylhexyl)Phthalate_ 10 U 10 56-55-3-----Benzo(a)anthracene U 10 U 218-01-9-----Chrysene 117-84-0------Bi-n-octylphthalate 205-99-2-----Benzo(b)fluoranthene 10 Ū 10 U 10 U 207-08-9-----Benzo(k)fluoranthene

8270C

10

10

10

10

10

U

Ū

U

U

U

GW-MW07

Lab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812

Matrix: (soil/water) WATER Lab Sample ID: T2812-8

Sample wt/vol: 1000 (q/mL) ML Lab File ID: T2812-8A64

Level: (low/med) LOW Date Received: 01/09/03

% Moisture: decanted: (Y/N) Date Extracted:01/09/03

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/10/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N : Hq

COMPOUND

CAS NO.

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L Q 100-52-7----Benzaldehyde U 10 108-95-2----Phenol 10 U 111-44-4------Bis (2-chloroethyl) ether 95-57-8-----2-Chlorophenol 95-48-7-----2-Methylphenol 108-60-1-----2,2'-oxybis (1-Chloropropane) 10 U 10 U 10 U 10 U 98-86-2-----Acetophenone 10 U 106-44-5----4-Methylphenol 621-64-7----N-Nitroso-di-N-propylamine 10 U 10 U 67-72-1-----Hexachloroethane 10 U 10 U 10 U U 10 10 U 111-91-1----Bis(2-chloroethoxy)methane U 10 10 U U 10 10 U 10 U 105-60-2-----Caprolactam 10 U 59-50-7----4-Chloro-3-methylphenol 10 U 91-57-6----2-Methylnaphthalene 10 U 77-47-4-----Hexachlorocyclopentadiene 10 U 88-06-2----2,4,6-Trichlorophenol 95-95-4----2,4,5-Trichlorophenol 92-52-4----1,1'-Biphenyl 10 U 10 U 10 U 91-58-7----2-Chloronaphthalene 10 IJ 88-74-4----2-Nitroaniline 20 U 131-11-3-----Dimethylphthalate 10 U 606-20-2----2,6-Dinitrotoluene 10 U 208-96-8-----Acenaphthylene 10 U 99-09-2-----3-Nitroaniline U 20 83-32-9-----Acenaphthene_ 10 U FORM I SV 8270C

GW-MW07

Q

Lab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812

Matrix: (soil/water) WATER Lab Sample ID: T2812-8

Sample wt/vol: 1000 (g/mL) ML Lab File ID: T2812-8A64

Level: (low/med) LOW Date Received: 01/09/03

% Moisture: _____ decanted: (Y/N)___ Date Extracted:01/09/03

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/10/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO. COMPOUND CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

51-28-52,4-Dinitrophenol 100-02-74-Nitrophenol 121-14-22,4-Dinitrotoluene 132-64-9Dibenzofuran 84-66-2Diethylphthalate 7005-72-34-Chlorophenyl-phenylether 86-73-7Fluorene 100-01-64-Nitroaniline 534-52-14,6-Dinitro-2-methylphenol 86-30-6N-Nitrosodiphenylamine (1) 101-55-34-Bromophenyl-phenylether 118-74-1Hexachlorobenzene 1912-24-9Atrazine 87-86-5Pentachlorophenol 85-01-8Phenanthrene 120-12-7Anthracene 86-74-8Carbazole 84-74-2Di-n-butyIphthalate 206-44-0Fluoranthene 129-00-0	50 20 10 10 10 10 20 20 20 10 10 10 10 10 10 10	מממממממממממממממממ
86-30-6Nitrosodiphenylamine (1) 101-55-34-Bromophenyl-phenylether	10	Ū
118-74-1Hexachlorobenzene 1912-24-9Atrazine	10	Ū
85-01-8Phenanthrene	10 10	U U
86-74-8Carbazole 84-74-2Di-n-butylphthalate	10	U
206-44-0Fluoranthene 129-00-0Pvrene	10	U
91-94-1	10	ט ט
56-55-3Benzo (a) anthracene 218-01-9Chrysene 117-84-0Di-n-octylphthalate	10 10 10	U U
117-84-0Di-n-octylphthalate 205-99-2Benzo(b)fluoranthene 207-08-9Benzo(k)fluoranthene	10 10	U U
50-32-8Benzo(a)pyrene 193-39-5Indeno(1.2.3-cd)pyrene	10 10 10	U U
53-70-3Dibenzo(a,h)anthracene 191-24-2Benzo(g,h,i)perylene	10 10 10	บ บ
) - Cannot be separated from Diphorylamina		

(1) - Cannot be separated from Diphenylamine FORM I SV

CLIENT SAMPLE NO.

GW-MW08

b Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.:

SDG No.: T2812

Matrix: (soil/water) WATER

Lab Sample ID: T2812-4

Sample wt/vol: 500 (g/mL) ML

Lab File ID: T2812-4RA64

Date Received: 01/08/03

Level: (low/med) LOW

% Moisture: ____ decanted: (Y/N)____

Date Extracted:01/09/03

Concentrated Extract Volume:

500 (uL) Date Analyzed: 01/10/03

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

		NCENTRATION		0	
CAS NO.	COMPOUND (u	g/L or ug/K	g) 0G/L	Q	
100-52-7	Benzaldehyde		10	ט	ļ
108-95-2	Phenol		10	U	
111-44-4	Bis(2-chloroethyl)e	ther	10	U	-
05-57-8	2-Chlorophenol		10	ាប	- 1
	2-Methylphenol		10	Ū	1
108-60-1	2,2'-oxybis(1-Chlor	opropanel	10	Ū	1
08-96-2	Acetophenone	opropuno,	10	ΰ	}
	4-Methylphenol		10	Ŭ	1
621-64-7	N-Nitroso-di-N-prop	vlamine	10	υ	j
67.72.1	Hexachloroethane	-	10	Ū	
07-72-1	Nitrobenzene		10	Ū	ĺ
	Isophorone		10	Ιŭ	
	2-Nitrophenol		10	Ŭ	
305 67 0	2,4-Dimethylphenol		10	บั	ļ
105-67-3	Bis(2-chloroethoxy)	methane	10	บี	ł
	2,4-Dichlorophenol	mccnanc	10	บั	
	Naphthalene		10	Ü	ł
106 47 9	4-Chloroaniline		10	บั	
	Hexachlorobutadiene		10	ϋ	
	Caprolactam		10	Ŭ	
103-60-2	4-Chloro-3-methylph	enol	10	ΰ	j
01 57 (2-Methylnaphthalene	.61101	10	ŭ	
91-57-6	Hexachlorocyclopent	adiono	10	บั	1
77~47~4~~~		201	10	บี	1
05 05 4	2,4,5-Trichlorophen	.01	10	υ	1
	1,1'-Biphenyl	.01	10	บี	
01 50 7	2-Chloronaphthalene		10	ΰ	l
91-56-/	2-Chioronaphcharene	·	20	ן ט	1
			10	ŭ	- 1
131-11-3	Dimethylphthalate		10	ϋ	- 1
200-20-2	2,6-Dinitrotoluene Acenaphthylene	———— <u> </u>	10	Ü	
			20	ϋ	- 1
	3-Nitroaniline		20 10	เป็	
03-32-9	Acenaphthene		10	10	
	FORM I SV			-	<u>8</u> 270

Lab Name: COMPUCHEM GW-MW08 Method: 8270C Lab Code: LIBRTY Case No.:

SAS No.: SDG No.: T2812

Matrix: (soil/water) WATER Lab Sample ID: T2812-4

Sample wt/vol: 500 (g/mL) ML Lab File ID: T2812-4RA64

Level: (low/med) LOW Date Received: 01/08/03

% Moisture: _____ decanted: (Y/N)___ Date Extracted:01/09/03

Concentrated Extract Volume: 500 (uL) Date Analyzed: 01/10/03

Injection Volume: 1.0(uL)

Dilution Factor: 1.0 GPC Cleanup: (Y/N) N pH: ____

CONCENTRATION UNITS: (ug/L or ug/Kq) UG/L CAS NO. COMPOUND

		(ug/L or	ug/Kg)	UG/L	Q)
	2,4-Dinitropheno			50	ט	_
	2 1-Dinitrot-T	200	<u> </u>	20	U	
				10	, –	
04-66-2	Di∧+b1			10	1 -	
///////////////////////////////////////		henvlothe		10	1 -	
86-73-7	Fluorene	nenyrether		10	_	
100-01-6			—- l	10		
シンチェンス・エー・・	A G Dimit	thylphenol		20		
86-30-6	Nitrosodipheny	lamine (1)	·——	20	-	
101-55-3	4-Bromophenyl-ph	envlet Fer		10	1 -	
118-74-1	Hexachlorobenzen	e erry recitet -		10	1 -	
				10	1 -	
3/~86-5	Pentachloropheno			10	U	
				10	U	
LZU-1/-/	Xn+h			10	U	
36 - 14 - X	- Camba - 3			10	U	
コチェ /チェノー・ー・	Di m bott	ate	—	10	ַ	
206-44-0	Fluoranthene			10	Ū	
29-111-0	D			10	Ü	
07-08-/	Pyrene Butylbenzylphthal	ate		10	ū	
17 01 7	3,3'-Dichlorobenz	idine	 ∤	10	Ū	
	bis(2-ethylhexyl)	Phthalate		10	ū	
19 01 0	Bis(2-ethylhexyl) Benzo(a)anthracer	ie		5	J	
17-01-9	Chrysene	-		10 10	บ	
15-04-0 15-09-2	Di-n-octylphthala	ite		10	Ü	
07-08.0	Benzo(b) fluoranth	ene	- 1		Ü	
		ene		10 10	Ü	
93-39-5-	Benzo(a)pyrene_			10	Ü	
		yrene	-	10	U	
91-24-2	Dibenzo(a,h)anthr	acene	-	10	l u	
- LT-2	Benzo(a,h)anthr Benzo(g,h,i)peryl	ene	-	10	Ü	
			-	10	1	
-~oc De	separated from Diphe	nylamine	I		1	_
	FORM I SV				c	8:
					(

ab Name: COMPUCHEM Method: 8270C

GW-MW09

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812

Matrix: (soil/water) WATER Lab Sample ID: T2812-11

Sample wt/vol: 1000 (g/mL) ML Lab File ID: T2812-11A64

Level: (low/med) LOW Date Received: 01/10/03

% Moisture: _____ decanted: (Y/N)___ Date Extracted:01/10/03

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/12/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

		CONCENTRATION		
CAS NO.	COMPOUND	(ug/L or ug/K	g) UG/L	Q
100-52-7	Benzaldehyde		10	U
108-95-2	Phenol		10	U
111-44-4	Bis(2-chloroet	hyl)ether	10	U
95-57-8	2-Chlorophenol	· -	10	ט
	2-Methylphenol		10	ן ט
108-60-1	2,2'-oxybis(1-	Chloropropane)	10	ט
	Acetophenone		10	ן ט
106-44-5	4-Methylphenol		10	ן ט
621-64-7	N-Nitroso-di-N	-propylamine	10	ט
67-72-1	Hexachloroetha	ne	10	ט
98-95-3	Nitrobenzene		10	ט
	Isophorone		10	ן מן
88-75-5	2-Nitrophenol		10	U
105-67-9	2,4-Dimethylph	enol	10	ען ע
111-91-1	Bis(2-chloroet	hoxy methane	10	Ū
	2,4-Dichloroph		10	ט
	Naphthalene		10	TU
	4-Chloroanilin	e	10	Ū
	Hexachlorobuta		10	Ū
105-60-2	Caprolactam		10	י די
59-50-7	4-Chloro-3-met	hvlphenol	10	ן ט
	2-Methylnaphth		10	Ū
	Hexachlorocycl		10	lŪ
	2,4,6-Trichlor		10	Ū
	2,4,5-Trichlor		10	υ
92-52-4	1,1'-Biphenyl		10	υ
91-58-7	2-Chloronaphth	alene	10	lŭ l
88-74-4	2-Nitroaniline		20	ا ت
	Dimethylphthal	ate	10	Ū
606-20-2	2,6-Dinitrotol	uene	10	ΰ
208-96-8	Acenaphthylene		10	lΰ
	3-Nitroaniline		20	Ü
83-32-9	Acenaphthene		10	lŭ l
-				
	FORM I	SV '-		8270

193-39-5-----Indeno(1,2,3-cd)pyrene 53-70-3-----Dibenzo(a,h)anthracene

191-24-2----Benzo(g,h,i)perylene_

(i) - Cannot be separated from Diphenylamine

FORM I SV

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM GW-MW09 Method: 8270C Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812 Matrix: (soil/water) WATER Lab Sample ID: T2812-11 Sample wt/vol: 1000 (g/mL) ML Lab File ID: T2812-11A64 Level: (low/med) LOW Date Received: 01/10/03 % Moisture: decanted: (Y/N) Date Extracted:01/10/03 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/12/03 Injection Volume: 1.0(uL) Dilution Factor: 1.0 GPC Cleanup: (Y/N) N pH: ____ CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q 51-28-5----2,4-Dinitrophenol_ 100-02-7----4-Nitrophenol 50 U 121-14-2----2,4-Dinitrotoluene 20 U 132-64-9-----Dibenzofuran 10 U 84-66-2-----Diethylphthalate 10 U 7005-72-3-----4-Chlorophenyl-phenylether 10 U 86-73-7----Fluorene 10 U 100-01-6-----4-Nitroaniline 10 U 534-52-1-----4,6-Dinitro-2-methylphenol 20 U 86-30-6-----N-Nitrosodiphenylamine_(1) 20 U 101-55-3----4-Bromophenyl-phenylether_ 10 U 118-74-1-----Hexachlorobenzene 10 U 1912-24-9-----Atrazine 10 U 87-86-5-----Pentachlorophenol UR 10 85-01-8-----Phenanthrene 10 U 120-12-7-----Anthracene 10 U 86-74-8-----Carbazole 10 U 84-74-2-----Di-n-butylphthalate_ 10 U 206-44-0-----Fluoranthene 10 Ū 10 129-00-0-----Pyrene ľŪ 85-68-7-----Butylbenzylphthalate 10 U 10 U 10 U 56-55-3-----Benzo(a) anthracene 10 U 218-01-9-----Chrysene 10 U 117-84-0-----Di-n-octylphthalate 10 U 205-99-2-----Benzo(b) fluoranthene 10 U 207-08-9-----Benzo(k) fluoranthene 10 U 50-32-8-----Benzo (a) pyrene 10 U

8270C

10

10

10

10

U

U

U

U

GW-MW10 Lab Name: COMPUCHEM Method: 8270C Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812 Matrix: (soil/water) WATER Lab Sample ID: T2812-6 Sample wt/vol: 1000 (g/mL) ML Lab File ID: T2812-6A64 Level: (low/med) LOW Date Received: 01/09/03 % Moisture: ____ decanted: (Y/N)___ Date Extracted:01/09/03 Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/10/03 Injection Volume: 1.0(uL) Dilution Factor: 1.0 GPC Cleanup: (Y/N) N pH: ___ CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

100-52-7Benzaldehyde	10	l _u
108-95-2Phenol	10	lu l
111-44-4Bis(2-chloroethyl)ether	10	ן מ
95-57-82-Chlorophenol	10	ü
95-48-72-Methylphenol	10	ן ט
108-60-12,2'-oxybis(1-Chloropropane)	10	ן ט
98-86-2Acetophenone	10	1 1
106-44-54-Methylphenol	10	ט
621-64-7Nitroso-di-N-propylamine	10	_
67-72-1Hexachloroethane	_ ·	ŭ
98-95-3Nitrobenzene	10	<u>ַ</u>
78-59-1Isophorone	10	ū
88-75-52-Nitrophenol	10	n l
105-67-92,4-Dimethylphenol	10	U
111-91-1Bis (2-chloroethoxy) methane	10	ע
120-83-22,4-Dichlorophenol	10	ן ט
91-20-3Naphthalene	10	U
106-47-84-Chloroaniline	10	U
87-68-3Hexachlorobutadiene	10	ן ט
105-60-2Caprolactam	10	U
59-50-7 4 Ghlana 2	10	ן ט
59-50-74-Chloro-3-methylphenol	10	ן טן
91-57-62-Methylnaphthalene	10	U
77-47-4Hexachlorocyclopentadiene	10	ן ט
38-06-22,4,6-Trichlorophenol	10	ן ט
95-95-42,4,5-Trichlorophenol	10	U
92-52-41,1'-Biphenyl	10	ט
91-58-72-Chloronaphthalene	10	ן ט
38-74-42-Nitroaniline	20	ע
31-11-3Dimethylphthalate	10	ן טן
506-20-22,6-Dinitrotoluene	10	ן טן
208-96-8Acenaphthylene	10	ט
99-09-23-Nitroaniline	20	ן טן
83-32-9Acenaphthene	10	ן ט
		1
FORM I SV		827

GW-MW10

Method: 8270C Lab Name: COMPUCHEM

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: T2812

Matrix: (soil/water) WATER

Lab Sample ID: T2812-6

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: T2812-6A64

Level: (low/med) LOW

Date Received: 01/09/03

% Moisture: ____ decanted: (Y/N) __ Date Extracted:01/09/03

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/10/03

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

CONCENTRATION UNITS:

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	(ug/L or ug	/Kg) UG/L	Q
51-28-5	2,4-Dinitroph	enol	50	U
100-02-7	4-Nitrophenol		20	ΰ
121-14-2	2,4-Dinitroto	luene	10	Ü
132-64-9	Dibenzofuran		10	ΰ
84-66-2	Diethylphthal	ate	10	ΰ
7005-72-3	4-Chloropheny	l-phenylether	10	ŭ
86-73-7	Fluorene		10	Ü
	4-Nitroanilin	e	20	ΰ
	4,6-Dinitro-2		20	Ŭ
86-30-6	N-Nitrosodiph	envlamine (1)	10	บั
101-55-3	4-Bromophenyl	-nhenvlether	10	Ü
118-74-1	Hexachloroben	Zene	10	ϋ
1912-24-9	Atrazine	ZCIIC	•	
87-86-5	Pentachloroph	eno	10	U
85-01-8	Phenanthrene	EHOT	10	Ü
120-12-7	Anthracene	······································	10	Ü
86-74-8	Carbazole		10	Ų
84-74-2	Di-n-butyIpht	halate	10	Ŭ
206-44-0	Fluoranthene	narace		Ü
129-00-0	Pyrene		10	U
85-68-7	Butylbenzylph	thalato	10	ŢŢ
91 - 94 - 1	3,3'-Dichlore	henzidino	10	U
117-81-7	bis(2-ethylhe	vyl) Dhthalata	10	ū
56-55-3	Benzo(a)anthr	Ay1/FIICHAIACE	10	ŭ
218-01-9	Chrysone	acene	10	ū
117-84-0	Di-n-octylpht	halata	10	U
205-99-2	Benzo(b)fluor	natate	10	U
202-22-2	Benzo(b)fluor	anchene	10	U
50-22-0-	Benzo(k)11uor Benzo(a)pyren	anthene	10	ប្រ
107.20 6	Indone (1 2 2	e	10	U
133°37-3	Indeno (1, 2, 3-	ca) pyrene	10	U
101 04 0	Dibenzo (a, h) a	ntnracene	10	U
	Benzo(g,h,i)p	erytene	10	Ū
- Cannot be	separated from D			_ !
	FORM	1 SV		

GW-MW11 Lab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812

Matrix: (soil/water) WATER Lab Sample ID: T2812-7

Sample wt/vol: 1000 (g/mL) ML Lab File ID: T2812-7A64

Level: (low/med) LOW Date Received: 01/09/03

% Moisture: ____ decanted: (Y/N)___ Date Extracted:01/09/03

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/10/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS:

COMPOUND

CAS NO.

CAS NO.	COMPOUND	(ug/L or ug/k	(g) UG/L	Q
100-52-7	Benzaldehyde		10	U
108-95-2	Phenol		10	lΰ
111-44-4	Bis(2-chloroeth	vllether	10	บั
95-5/-8	2-Chlorophenol	, = , 001101	10	Ü
95-48-7	2-Methvlnhanal		10	
108-60-1	2 2'-oxybig(1-7	hloropropage		Ü
JO-00-2	ACETONNENONE	mioropropane)	10	Ü
106-44-5	4-Methylphenol		10	Ü
621-64-7	N-Nitrogo-di-N-1	propylamine	10	Ü
り/ <i>-/2-</i> 1	Hexachloroethan	Propyramine	10	U
98-95-3	Nitrobenzene	~	10	ū
78-59-1	Isophorone		10	U
88-75-5	2-Nitrophenol		10	Ū
105-67-9	4-Dimethylphon	201	10	Ŭ
111-91-1	Bis (2-chloroethe	101	10	U
120-83-2	2,4-Dichloropher	oxy) methane	10	U
91-20-3	Naphthalene	101	10	ַ
106-47-8	4-Chloroaniline		10	Ū
87-68-3	Hexachlorobutad		10	ַּט
105-60-2	Caprolactam	lene	10	Ū
59-50-7	caproractam		10	U
91-57-6	4-Chloro-3-methy	Tpneno1	10	U
77-47-4	2-Methylnaphthal	ene	10	U
88-06-2	Hexachlorocyclor	entadiene	10	U
05-05-2	2,4,6-Trichloror	nenol	10	ט
00-50-4	2,4,5-Trichlorop	henol	10	ט
01 50 7	1,1'-Biphenyl		10	ט
DI-DO-/	2-Chloronaphthal	ene	10	Ū
101 11 0	2-Nitroaniline		20	U
T3T-TT-3	Dimethylphthalat	e	10	Ū
000-20-2	2.6-Dinitrotolua	ne	10	Ŭ
208-96-8	Acenaphthylene		10	Ü
JJ~UJ-Z	3-Nitroaniline		20	ŭ l
83-32-9	Acenaphthene		10	lŭ l
			10	
	FORM I S	V		82

GW-MW11

Lab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812

Matrix: (soil/water) WATER Lab Sample ID: T2812-7

Sample wt/vol: 1000 (g/mL) ML Lab File ID: T2812-7A64

Level: (low/med) LOW Date Received: 01/09/03

% Moisture: ____ decanted: (Y/N) ___ Date Extracted:01/09/03

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/10/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO. COMPOUND CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Q

51-28-52,4-Dinitrophenol	50	U
100-02-74-Nitrophenol		ΰ
121-14-22.4-Dinitrotoluene	10	ϋ
132-64-9Dibenzofuran		ΰ
84-66-2Diethylphthalate	10	Ü
7005-72-34-Chlorophenyl-pheny	lether 10	Ü
86-73-7Fluorene		Ü
100-01-64-Nitroaniline	20	ט
534-52-14,6-Dinitro-2-methyl	phenol 20	1
86-30-6N-Nitrosodiphenylami	, , 	U
101-55-34-Bromophenyl-phenyl	ne (1) 10	U
118-74-1Hexachlorobenzene	 ,	Ū
1912-24-9Atrazine		U
87-86-5Pentachlorophenol		U
85-01-8Phenanthrene		U
120-12-7Anthracene		U
86-74-8Carbazole		U
84-74-2 Di n hutuTalat		U
84-74-2Di-n-butylphthalate 206-44-0Fluoranthene		U
120-00 0	10	U
129-00-0Pyrene	10	U
85-68-7Butylbenzylphthalate 91-94-13,3'-Dichlorobenzidi	10	U
31-34-13,3'-Dichlorobenzidi	ne10	U
11/-01-/	halate 10	U
56-55-3Benzo(a)anthracene	10	Ü
218-01-9Chrysene	10	Ŭ
117-84-0Di-n-octylphthalate		Ŭ
205-99-2Benzo(b) fluoranthene	10	Ŭ
207-08-9Benzo(k)fluoranthene	10	Ū
50-32-8Benzo(a)pyrene -		Ü
193-39-5Indepo(1 2 3-cd) pyres	20	Ü
53-70-3Dibenzo(a.h)anthracer	20	Ü
191-24-2Benzo(g,h,i)perylene	10	Ü
	1 ±0	, ,

FORM I SV

FORM 1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ER-SS-	610803
EK-22.	010003

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: T2812

Matrix: (soil/water) WATER

Lab Sample ID: T2812-9

Sample wt/vol:

1000 (g/mL) ML

Lab File ID: T2812-9JA64

Level:

(low/med) LOW Date Received: 01/09/03

% Moisture: _____ decanted: (Y/N)___

Date Extracted:01/09/03

Concentrated Extract Volume:

1000(uL)

Date Analyzed: 01/10/03

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: ____

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
		========	=======================================	====:
1		_		
3.				
4				
5		_		
6				
7		-		
8.				
9				
10.				
		_		
14.				
10.				
4J.				
1b.				
± / •				
10.		_		
19.				
20		_		
21.		_		
22.		_		
20.		_		
24		_		
25.		_		
26. 27.		_		
28.		-		
29.				
30:				
· · · - -		_		

CLIENT SAMPLE NO.

ER-SS-010903

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: T2812

Matrix: (soil/water) WATER

Lab Sample ID: T2812-14

Sample wt/vol:

1000 (g/mL) ML

Lab File ID: T2812-14A64

Level:

(low/med) LOW

Date Received: 01/10/03

% Moisture: _____ decanted: (Y/N)___

Date Extracted:01/10/03

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 01/12/03

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 0

1.	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
3. 4. 5. 6. 7. 8. 9. 9. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 22. 23. 24. 22. 23. 24. 22. 23. 24. 22. 23. 24. 22. 26. 27. 28. 29. 29.	1.			===========	====
4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29.			-		
5. 6. 7. 8. 8. 9. 10. 11. 12. 13. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29.			-		l
6.	- •				l
7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29.					
8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29.					
10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28.	8.		-		
11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29.			-		
11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29.	10		·		
13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29.	11.				
14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28.	12				
15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28.					
16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28.					
18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28.	16.				
18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28.	17				
19. 20. 21. 22. 23. 24. 25. 26. 27. 28.	18.				
21. 22. 23. 24. 25. 26. 27. 28.	19.				
22. 23. 24. 25. 26. 27. 28.	20				
23. 24. 25. 26. 27. 28.	22				
24. 25. 26. 27. 28.	22				
25. 26. 27. 28. 29.					
26. 27. 28. 29.	25.				
27. 28. 29.	26.				
29.	27.				
30.	28.		 .		
30	29			- 	
	30		-		
FORM I SV-TIC					

GW-MW0	1

ab Name: COMPUCHEM	Method: 8	8270C	
Lab Code: LIBRTY (Case No.: SAS No.	: SDG	No.: T2812
Matrix: (soil/water)	WATER	Lab Sample ID:	T2812-1
Sample wt/vol:	1000 (g/mL) ML	Lab File ID:	T2812-1A64
Level: (low/med)	LOW	Date Received:	01/08/03
% Moisture:	decanted: (Y/N)	Date Extracted	1:01/08/03
Concentrated Extract	Volume: 1000(uL)	Date Analyzed:	01/09/03
Injection Volume:	1.0(uL)	Dilution Facto	or: 1.0
GPC Cleanup: (Y/N)	N pH:		

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1		======		====
2.				
3.				
T •	· · · · · · · · · · · · · · · · · · ·			
5.				
7.				
0. 1				
9.		_		
1.				
.3.				
6. 7.				
.8.		_		
		_		
1. 2.		_		
J. 1	·			
4.				
D.				
7.				
0.		-		
9.				
0				

FORM I SV-TIC

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: T2812

Matrix: (soil/water) WATER

Lab Sample ID: T2812-2

Sample wt/vol:

1000 (g/mL) ML

Lab File ID: T2812-2JA64

Level: (low/med)

LOW

Date Received: 01/08/03

% Moisture: ____ decanted: (Y/N)___

Date Extracted:01/08/03

Concentrated Extract Volume:

1000(uL)

Date Analyzed: 01/09/03

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: ____

Number TICs found: 1

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN		===========	=====
2	OINTIOMI	13.93	25	٦. ا
2				"
·				
4				
5				
6				
7				
8.				
9.				
0.				
i				
2				
2				
3.		I		
4		 .		
5.		 .		
5.				
7.				
3.				
9.				
ó:		-		
·		-		
2		_		
J				
:				
			- <u>- </u>	
	-		· · · · · · · · · · · · · · · · · · ·	1
	FORM I SV-TIC			

FORM 1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: T2812

Matrix: (soil/water) WATER

1000 (g/mL) ML

Lab Sample ID: T2812-3

Sample wt/vol:

Lab File ID: T2812-3A64

Level: (low/med) LOW

Date Received: 01/08/03

% Moisture: _____ decanted: (Y/N)___

Concentrated Extract Volume:

Date Extracted:01/08/03

Date Analyzed: 01/09/03

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: ____

1000 (uL)

Number TICs found: 1

CAS NUMBER	COMPOUND NAME	RT	ì	CONC.		
1. 10544-50-0	SULFUR, MOL. (S8)	13.93	=====		NJ	J
2. 3.						
5						
6. 7.						
8. 9.						
10. 11.						
12. 13. 14.						
15.						
17.						
19.						
21. 22.						
24.						
26.						
28.						
29. 30.						
	FORM I SV-TIC					

CLIENT SAMPLE NO.

GW-MW03

Lab Name:	COMPUCHEM	I	Method: 8270C	
Lab Code:	LIBRTY	Case No.:	SAS No.:	SDG No.

SDG No.: T2812

Matrix: (soil/water) WATER Lab Sample ID: T2812-16 Sample wt/vol:

1000 (g/mL) ML Lab File ID: T2812-16A64

Level: (low/med) LOW Date Received: 01/15/03

% Moisture: _____ decanted: (Y/N)___ Date Extracted:01/17/03

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/19/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CONCENTRATION UNITS: Number TICs found: 1 (ug/L or ug/Kg) ug/L

CAC MINOUP				71
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 7704-34-9 2.	SULFUR	13.87		NJ
3.				
4.				
5. 6.				
1.				
				[
9.				
<u> </u>				
<i>L</i> ,				
3				[
5.				
6				<u> </u>
7 3 .				
9.				
),				
2				
3.				
i.		—— .		
).				
7.				
),				
,		 -		
		-		
	FORM I SV-TI			

CLIENT SAMPLE NO.

FORM 1 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

ab Name: COMPUCHEM

Method: 8270C

GW-MW05

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: T2812

Matrix: (soil/water) WATER

Lab Sample ID: T2812-12

Sample wt/vol:

1000 (g/mL) ML

Lab File ID: T2812-12A64

Level: (low/med) LOW

Date Received: 01/10/03

% Moisture: ____ decanted: (Y/N)___

Date Extracted:01/10/03

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 01/12/03

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q =====
1.				
2.				
4				
5		\ <u></u>		
7.				
·				
10				
11.				-
12.				
15.				-
16.				
10.				
19				
21.				l
22.				
24.				ļ
Z3.				ļ ———
26. 27.				
28.				
30				
	FORM I SV-TIC	.l <u></u>		l

FORM I SV-TIC

CLIENT SAMPLE NO.

GW-MW06	
---------	--

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: T2812

Matrix: (soil/water) WATER

Lab Sample ID: T2812-13

Sample wt/vol:

1000 (g/mL) ML

Lab File ID:

T2812-13A64

Level: (low/med)

LOW

Date Received: 01/10/03

% Moisture:

decanted: (Y/N)

1000(uL)

Date Extracted:01/10/03

Concentrated Extract Volume:

Date Analyzed: 01/12/03

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: ____

Number TICs found: 1

CAS NUMBER	COMPOUND NAME	RT	EST.	CONC.	Q
1. 10544-50-0 S	SULFUR, MOL. (S8)	13.85	======		===== NJ
3.					
5.					
7.					
8					
9.					
1.					
2					
3 . 4 .					
5.					
6					
8.		.			
9					
1.					
2		 -			
3					
).		-			
7.		-			
3,					
9:					
·				<u> </u>	

1000 (g/mL) ML

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: T2812

Matrix: (soil/water) WATER

Lab File ID:

Sample wt/vol:

LOW

T2812-8A64

Level:

(low/med)

Concentrated Extract Volume: 1000(uL)

Date Received: 01/09/03

% Moisture: _____ decanted: (Y/N)___

Date Extracted:01/09/03

Date Analyzed: 01/10/03

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

Lab Sample ID: T2812-8

GPC Cleanup: (Y/N) N

pH: ____

Number TICs found: 1

CAS NUMBER	COMPOUND			
=======================================	COMPOUND NAME	RT	EST. CONC.	Q
1. 7704-34-9 S	ULFUR	13.90		===== NJ
2				
4				
5				
7				
8.				
9		.		
.0.		-		
1.				
3				
4.				
5.				
6.		-		
8:				
9.				
0.				
1.			 [.	
2				——
4.				-
5.				
6				
7		 -	· .	
8.				
0:				

CLIENT SAMPLE NO.

		TENTATIVELY	IDENTIFIED COMPOUNDS	
Lab	Name:	COMPUCHEM	Method: 8270C	

Lab Code: LIBRTY Case No.: SAS No.:

SDG No.: T2812

Matrix: (soil/water) WATER

(g/mL) ML 500

Lab Sample ID: T2812-4 Lab File ID: T2812-4RA64

Level: (low/med) LOW Date Received: 01/08/03

Sample wt/vol:

% Moisture: ____ decanted: (Y/N)___

Date Extracted:01/09/03

Concentrated Extract Volume:

500 (uL)

Date Analyzed: 01/10/03

Injection Volume: 1.0(uL)

Number TICs found: 1

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	
	UNKNOWN	5.98		
	ONATIONIA	3.30	10	٧
2				
~ •	_	-	 -	
4				
5	-	-		ļ
· .	_	-		l
7.		-		
ο.		-	l	l
9.				l
0		_		l
L.		_		
2.				
3.				
± .				
J.				·
				ļ ————
		-		
7.		-1		
	-	-		
		-		
2		-		
3		-		
í		-		ļ
·	_	-		
5.	_			
		-		
7		-		
3	_	-		
9.		_		
0				

1000 (g/mL) ML

CLIENT SAMPLE NO.

CW	_	м	TAT	a	٥	

Lab	Name:	COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: T2812

Matrix: (soil/water) WATER

T2812-11A64

Sample wt/vol:

LOW

Lab File ID:

Level:

(low/med)

Date Received: 01/10/03

Lab Sample ID: T2812-11

% Moisture:

decanted: (Y/N)___

Date Extracted:01/10/03

Concentrated Extract Volume:

1000 (uL)

Date Analyzed: 01/12/03

Injection Volume:

1.0(uL)

Dilution Factor: 1.0

GPC Cleanup:

(Y/N) N

pH: ____

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
======================================	=======================================	==	==========	===
1				
2.				
3.				
T.		.		
5				
6.				
, ,				
o.				
٥.				
.0.				
.↓.				
.2.				
.3.		·		
.4.		— —— ·		
.5.		— ·		
.6.				
.7.		— -		
		-		
		~- .		
0		— ·		
1		— ——— .		
1		.		
2.		— .		
	· · · · · · · · · · · · · · · · · · ·	_ - .		
		.		
J. 1		_].		
0.		_ .		
/ · · · · · · · · · · · · · · · · · · ·				
8.				
9.		_ -		
0.		_		
		 -		

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM

Method: 8270C

GW-MW10

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: T2812

Matrix: (soil/water) WATER

Lab Sample ID: T2812-6

Sample wt/vol:

1000 (g/mL) ML

Lab File ID:

T2812-6A64

Level:

(low/med)

LOW

Date Received: 01/09/03

% Moisture: ___ decanted: (Y/N)___

1000(uL)

Date Extracted:01/09/03

Concentrated Extract Volume:

Date Analyzed: 01/10/03

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: ____

Number TICs found: 1

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q.
1. 10544-50-0	SULFUR, MOL. (S8)	13.90	17	nj
2. 3.				 -
4				
5 6				
7				
8. 9.				
0.				
1.				i
2				
3.				
5.				
6.				
7 8.				
9.				
0.				·
1				
3				
4.				
5				
6. 7.				
8.				
9				
0.				
	FORM I SV-TIC	1		

CLIENT SAMPLE NO.

GW-MW11

Method: 8270C

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: T2812

Matrix: (soil/water) WATER

Lab Sample ID: T2812-7

Sample wt/vol:

1000 (g/mL) ML

Lab File ID:

T2812-7A64

Level:

(low/med) LOW

Date Received: 01/09/03

% Moisture: _____ decanted: (Y/N)___

Date Extracted:01/09/03

Concentrated Extract Volume:

1000 (uL)

Date Analyzed: 01/10/03

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: ____

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
======================================		== ====== :		====
1		_ .	· · · · · · · · · · · · · · · · · · ·	
2		.		l
3		-		
4		-		
5.		-		
7		— -		l
8		-		
9.		— -		
10.		- -		
1		- -		
.2.		— -		
.3.				
		-		
		— -		
		- -		
		- -		
9.		- -		
		- -		
+ • 1		- -		
4.		- -		
3.		- -		
4.		—		
5.		- -		
6.		- -		
7.		- -		
8.		-		
9.		- -		
0		- -		
	······································	- -		

ER-SS-010803

Q

Lab Name: COMPUCHEM Contract: 8081A

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: T2812

Matrix: (soil/water) WATER

Lab Sample ID: T2812-9

Sample wt/vol:

Lab File ID:

% Moisture:

decanted: (Y/N)

1000 (g/mL) ML

Date Received: 01/09/03

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted:01/09/03

Concentrated Extract Volume:

5000 (uL)

Date Analyzed: 01/13/03

Injection Volume:

2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 5.0

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L

309-00-2Aldrin	0.050	11
319-84-6alpha-BHC	0.050	
319-85-7beta-BHC	0.10	
319-86-8delta-BHC	0.050	. –
58-89-9gamma-BHC (Lindane)	0.050	
72-54-84, 4'-DDD	0.20	
72-55-94,4'-DDE	-1	_
50-29-34,4'-DDT	0.10	
60-57-1Dieldrin	0.30	. –
959-98-8Endosulfan I	0.10	1
33213-65-9Endosulfan II	0.10	_
1031-07-8Endosulfan sulfate	0.20	,
72-20-8Endrin		U
7421 02 4 Endrin 31 1-1-1-	0.20	. ~
7421-93-4Endrin Aldehyde	0.20	-
76-44-8	0.050	
1024-57-3Heptachlor Epoxide	0.050	_
72-43-5Methoxychlor	0.50	_
8001-35-2Toxaphene	5.0	_
12674-11-2Aroclor-1016	0.50	U
11104-28-2Aroclor-1221	1.0	U
11141-16-5Aroclor-1232	0.50	U
53469-21-9Aroclor-1242	0.50	U
12672-29-6Aroclor-1248	0.50	U
11097-69-1Aroclor-1254	0.50	U
11096-82-5Aroclor-1260	0.50	
53494-70-5Endrin Ketone	0.50	
5103-74-2gamma-Chlordane	0.050	
5103-71-9alpha-Chlordane	0.10	Ü
		~
	·	

ER-SS-010903

Lab Name: COMPUCHEM Contract: 8081A Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812 Matrix: (soil/water) WATER Lab Sample ID: T2812-14 Sample wt/vol: 1000 (q/mL) ML Lab File ID: % Moisture: ____ decanted: (Y/N)____ Date Received: 01/10/03 Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:01/10/03 Concentrated Extract Volume: 5000(uL) Date Analyzed: 01/14/03 Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.0 Sulfur Cleanup: (Y/N) N CONCENTRATION UNITS: CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/L Q 309-00-2-----Aldrin 0.050 U 319-84-6----alpha-BHC 0.050 U 319-85-7-----beta-BHC_ 0.10 U 319-86-8-----delta-BHC 0.050 U 58-89-9-----gamma-BHC (Lindane) 0.050 U 72-54-8-----**-**-**----DDD**_ 0.20 U 72-55-9-----4,4'-DDE 0.10 U 50-29-3-----4,4'-DDT 0.30 U 60-57-1-----Dieldrin 0.10 U 959-98-8-----Endosulfan I 0.10 U 33213-65-9-----Endosulfan I \overline{I} 0.20 U 1031-07-8----Endosulfan sulfate 0.20 U 72-20-8-----Endrin 0.20 U 0.20 U 0.050 U 0.050 U 0.50 U 5.0 U 12674-11-2----Aroclor-1016 0.50 U 11104-28-2----Aroclor-1221 1.0 U 11141-16-5-----Aroclor-1232 0.50 U 53469-21-9-----Aroclor-1242 0.50 U 12672-29-6----Aroclor-1248 0.50 U 11097-69-1----Aroclor-1254 0.50 U 11096-82-5-----Aroclor-1260 0.50 U 53494-70-5----Endrin Ketone 0.50 U 5103-74-2----gamma-Chlordane 0.050 U 5103-71-9-----alpha-Chlordane 0.10 0

GW-MW01

Contract: 8081A Lab Name: COMPUCHEM

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: T2812

Matrix: (soil/water) WATER

Lab Sample ID: T2812-1

Sample wt/vol:

Lab File ID:

1000 (g/mL) ML

% Moisture:

decanted: (Y/N)

Date Received: 01/08/03

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted:01/08/03

Concentrated Extract Volume: 5000(uL)

Date Analyzed: 01/10/03

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.0

Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

Q

309-00-2Aldrin	0.050	U
319-84-6alpha-BHC	0.050	-
319-85-7beta-BHC	0.10	-
319-86-8delta-BHC	0.050	
58-89-9gamma-BHC (Lindane)	0.050	
72-54-84,4'-DDD	0.20	1
72-55-94,4'-DDE	0.10	•
50-29-34,4'-DDT	0.30	_
60-57-1Dieldrin	0.10	
959-98-8Endosulfan I	0.10	-
33213-65-9Endosulfan II	0.20	1 -
1031-07-8Endosulfan sulfate	0.20	
72-20-8Endrin	0.20	_
7421-93-4Endrin Aldehyde	— 0.20	
76-44-8Heptachlor	0.050	_
1024-57-3Heptachlor Epoxide	0.050	
72-43-5Methoxychlor	0.50	1
8001-35-2Toxaphene	<u> </u>	-
12674-11-2Aroclor-1016	0.50	
11104-28-2Aroclor-1221	i.0	
11141-16-5Aroclor-1232	0.50	
53469-21-9Aroclor-1242	0.50	
12672-29-6Aroclor-1248	0.50	-
11097-69-1Aroclor-1254	0.50	_
11096-82-5Aroclor-1260	0.50	_
53494-70-5Endrin Ketone	0.50	_
5103-74-2gamma-Chlordane	0.050	
5103-71-9alpha-Chlordane	0.10	

Dilution Factor: 1.0

CONCENTRATION UNITS:

1 D GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

GW-MW02 Contract: 8081A Lab Name: COMPUCHEM

SAS No.: Lab Code: LIBRTY Case No.: SDG No.: T2812

Matrix: (soil/water) WATER Lab Sample ID: T2812-2

1000 (g/mL) ML Lab File ID: Sample wt/vol:

% Moisture: _____ decanted: (Y/N)___ Date Received: 01/08/03

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:01/08/03

Concentrated Extract Volume: 5000(uL) Date Analyzed: 01/10/03

Injection Volume: 2.0(uL)

GPC Cleanup: (Y/N) N pH: 6.0 Sulfur Cleanup: (Y/N) N

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 0 309-00-2-----Aldrin 0.050 U 319-84-6-----alpha-BHC 0.050 U 319-85-7-----beta-BHC 0.10 U 319-86-8-----delta-BHC 0.050 U 58-89-9-----gamma-BHC (Lindane) 0.050 U 0.20 0 72-55-9-----4,4'-DDE 0.10 U 50-29-3-----4,4'-DDT 0.30 U 60-57-1-----Dieldrin 0.10 U 959-98-8-----Endosulfan I 0.10 U $33213-65-9-----Endosulfan I\overline{I}$ 0.20 U 1031-07-8-----Endosulfan sulfate 0.20 U 72-20-8-----Endrin 0.20 U 7421-93-4----Endrin Aldehyde 0.20 U 76-44-8------Heptachlor Epoxide 0.050 U 0.050 U 72-43-5------Methoxychlor 0.50 U 8001-35-2----Toxaphene 5.0 U 12674-11-2----Aroclor-1016 0.50 U 11104-28-2----Aroclor-1221 1.0 U 11141-16-5-----Aroclor-1232 0.50 U 53469-21-9-----Aroclor-1242 0.50 U 12672-29-6-----Aroclor-1248 0.50 U 11097-69-1----Aroclor-1254 0.50 U 11096-82-5----Aroclor-1260 0.50 U 53494-70-5----Endrin Ketone 0.50 U 5103-74-2----gamma-Chlordane 0.050 U 5103-71-9-----alpha-Chlordane 0.10 U

GW-MW02-D

Lab Name: COMPUCHEM Contract: 8081A

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812

Matrix: (soil/water) WATER Lab Sample ID: T2812-3

Sample wt/vol: 1000 (g/mL) ML Lab File ID:

% Moisture: _____ decanted: (Y/N) ___ Date Received: 01/08/03

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:01/08/03

Concentrated Extract Volume: 5000(uL) Date Analyzed: 01/10/03

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.0 Sulfur Cleanup: (Y/N) N

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

	(=5) = 45 45, 1.5, 66, 2		×
309-00-2Aldrin		0.050	II
319-84-6alpha-BHC		0.050	
319-85-7beta-BHC	`	0.10	
319-86-8delta-BHC		0.050	
58-89-9gamma-BHC (Li		0.050	
72-54-84,4'-DDD		0.20	
72-55-94,4'-DDE		0.10	
50-29-34,4'-DDT		0.30	
60-57-1Dieldrin		0.10	
959-98-8Endosulfan I		0.10	· -
33213-65-9Endosulfan \overline{II}		0.20	
1031-07-8Endosulfan su	Ifate	0.20	
72-20-8Endrin		0.20	
7421-93-4Endrin Aldehye	le le	0.20	
76-44-8Heptachlor	(0.050	
1024-57-3Heptachlor <u>Ep</u>	oxide	0.050	
72-43-5Methoxychlor		0.50	
8001-35-2Toxaphene —		5.0	
12674-11-2Aroclor-1016		0.50	1
11104-28-2Aroclor-1221		1.0	1 -
11141-16-5Aroclor-1232		0.50	
53469-21-9Aroclor-1242		0.50	
12672-29-6Aroclor-1248		0.50	_
11097-69-1Aroclor-1254		0.50	
11096-82-5Aroclor-1260		0.50	
53494-70-5Endrin Ketone	· · · · · · · · · · · · · · · · · · ·	0.50	-
5103-74-2gamma-Chlordar	ne o	0.50	
5103-71-9alpha-Chlordar	ne l	0.10	1
		0.10	

GW-MW03

Lab Name: COMPUCHEM Contract: 8081A

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812

Matrix: (soil/water) WATER Lab Sample ID: T2812-16

Sample wt/vol: 1000 (g/mL) ML Lab File ID:

% Moisture: _____ decanted: (Y/N)___ Date Received: 01/15/03

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:01/17/03

Concentrated Extract Volume: 5000(uL) Date Analyzed: 01/20/03

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.0 Sulfur Cleanup: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Q

		•
309-00-2Aldrin	0.050	77
319-84-6alpha-BHC		
319-85-7beta-BHC	0.050	
319-86-8delta-BHC	0.10	_
58-89-9gamma-BHC (Lindane)	0.050	-
72-54-84,4'-DDD	0.050	1 -
72-55-94,4'-DDE	0.20	-
72-33-94,4'-DDE	0.10	-
50-29-34,4'-DDT	0.30	U
60-57-1Dieldrin	0.10	U
959-98-8Endosulfan I	0.10	U
33213-65-9Endosulfan II	0.20	U
1031-07-8Endosulfan sulfate	0.20	
72-20-8Endrin	0.20	
7421-93-4Endrin Aldehyde	0.20	
76-44-8Heptachlor	0.050	
1024-57-3Heptachlor Epoxide	0.050	_
72-43-5Methoxychlor	0.50	
8001-35-2Toxaphene	5.0	
12674-11-2Aroclor-1016	0.50	_
11104-28-2Aroclor-1221		
11141-16-5Aroclor-1232		Ŭ
53469-21-9Aroclor-1242	0.50	
12672-29-6Aroclor-1248		U
11097-69-1Aroclor-1254		U
11096-82-5Aroclor-1260	0.50	_
53494-70-5Endrin Ketone	0.50	
5103-74-2	– –	Ŭ
5103-74-2gamma-Chlordane	0.050	U
5103-71-9alpha-Chlordane	0.10	U

GW-MW05

Lab Name: COMPUCHEM Contract: 8081A

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812

Matrix: (soil/water) WATER Lab Sample ID: T2812-12

Sample wt/vol: 1000 (g/mL) ML Lab File ID:

decanted: (Y/N)____ % Moisture: Date Received: 01/10/03

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:01/10/03

Concentrated Extract Volume: 5000(uL) Date Analyzed: 01/14/03

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.0 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 0

309-00-2
319-84-6alpha-BHC
319-85-7
319-86-8
58-89-9gamma-BHC (Lindane) 0.050 U 72-54-84,4'-DDD 0.20 U 72-55-94,4'-DDE 0.10 U 50-29-34,4'-DDT 0.30 U 60-57-1Dieldrin 0.10 U 959-98-8Endosulfan I 0.10 U 1031-07-8Endosulfan sulfate 0.20 U 72-20-8Endrin 0.20 U 7421-93-4Endrin Aldehyde 0.20 U 76-44-8Heptachlor 0.050 U 1024-57-3Methoxychlor 0.50 U 8001-35-2Toxaphene 5.0 U 12674-11-2Aroclor-1016 0.50 U 11141-16-5
72-54-84,4'-DDD 0.20 U 72-55-94,4'-DDT 0.10 U 50-29-34,4'-DDT 0.30 U 60-57-1Dieldrin 0.10 U 959-98-8Endosulfan I 0.10 U 1031-07-8Endosulfan sulfate 0.20 U 72-20-8Endrin 0.20 U 7421-93-4Endrin Aldehyde 76-44-8Heptachlor 0.050 U 1024-57-3Heptachlor 0.050 U 8001-35-2Methoxychlor 0.50 U 1104-28-2Aroclor-1016 0.50 U 11141-16-5Aroclor-1221 1.0 U 11141-16-5
72-55-94,4'-DDE 0.10 U 50-29-34,4'-DDT 0.30 U 60-57-1Dieldrin 0.10 U 959-98-8Endosulfan I 0.10 U 1031-07-8Endosulfan sulfate 0.20 U 72-20-8Endrin 0.20 U 7421-93-4Endrin Aldehyde 76-44-8Heptachlor 0.050 U 1024-57-3Heptachlor 0.050 U 8001-35-2Methoxychlor 0.50 U 8001-35-2Aroclor-1016 0.50 U 11104-28-2Aroclor-1221 1.0 U 11141-16-5Aroclor-1232 0.50 U
50-29-34,4'-DDT 0.30 U 60-57-1Dieldrin 0.10 U 959-98-8Endosulfan I 0.10 U 33213-65-9Endosulfan II 0.20 U 1031-07-8Endosulfan sulfate 0.20 U 72-20-8Endrin 0.20 U 7421-93-4Endrin Aldehyde 0.20 U 0.050 U 1024-57-3Heptachlor 0.050 U 1024-57-3Methoxychlor 0.50 U 8001-35-2Toxaphene 5.0 U 1104-28-2Aroclor-1016 0.50 U 11141-16-5Aroclor-1221 1.0 U 11141-16-5
60-57-1
959-98-8Endosulfan I 0.10 U 33213-65-9Endosulfan II 0.20 U 1031-07-8Endosulfan sulfate 0.20 U 72-20-8Endrin 0.20 U 7421-93-4Endrin Aldehyde 76-44-8Heptachlor 0.050 U 1024-57-3Heptachlor Epoxide 0.050 U 72-43-5Methoxychlor 0.50 U 8001-35-2Toxaphene 5.0 U 12674-11-2Aroclor-1016 0.50 U 11104-28-2Aroclor-1221 1.0 U 11141-16-5Aroclor-1232 0.50 U
33213-65-9Endosulfan II
1031-07-8Endosulfan sulfate 0.20 U 72-20-8Endrin 0.20 U 7421-93-4Endrin Aldehyde 0.20 U 76-44-8Heptachlor 0.050 U 1024-57-3Heptachlor Epoxide 0.050 U 72-43-5Methoxychlor 0.50 U 8001-35-2Toxaphene 5.0 U 12674-11-2Aroclor-1016 0.50 U 11104-28-2Aroclor-1221 1.0 U 11141-16-5Aroclor-1232 0.50 U
72-20-8Endrin 0.20 U 7421-93-4Endrin Aldehyde 0.20 U 76-44-8Heptachlor 0.050 U 1024-57-3Heptachlor 0.050 U 72-43-5Methoxychlor 0.50 U 8001-35-2Toxaphene 5.0 U 12674-11-2Aroclor-1016 0.50 U 11104-28-2Aroclor-1221 1.0 U 11141-16-5Aroclor-1232 0.50 U
7421-93-4Endrin Aldehyde 0.20 U 76-44-8Heptachlor 0.050 U 1024-57-3Heptachlor Epoxide 0.050 U 72-43-5Methoxychlor 0.50 U 8001-35-2Toxaphene 5.0 U 12674-11-2Aroclor-1016 0.50 U 11104-28-2Aroclor-1221 1.0 U 11141-16-5Aroclor-1232 0.50 U
76-44-8
1024-57-3Heptachlor Epoxide 72-43-5Methoxychlor 8001-35-2Toxaphene 12674-11-2Aroclor-1016 11104-28-2Aroclor-1221 11141-16-5Aroclor-1232 0.50 U
72-43-5Methoxychlor 8001-35-2Toxaphene 12674-11-2Aroclor-1016 11104-28-2Aroclor-1221 11141-16-5Aroclor-1232 53469-21-0
8001-35-2Toxaphene 5.0 U U U U U U U U U U
12674-11-2Aroclor-1016 0.50 U U U U U U U U U U U U U U U U U U U
126/4-11-2Aroclor-1016 11104-28-2Aroclor-1221 11141-16-5Aroclor-1232 53469-21 0 Aroclor-1232
11104-28-2Aroclor-1221 11141-16-5Aroclor-1232 53469-21 0
11141-16-5Aroclor-1232 0.50 U
0.50 U
1 126/2-29-6Aroclor-1248
1109/-69-1Aroclor-1254
11096-82-5Aroclor-1260
53494-70-5Endrin Ketone
5103-74-2gamma-Chlordane
5103-71-9alpha-Chlordane 0.10 U
0.10

GW-MW06 Lab Name: COMPUCHEM Contract: 8081A Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812 Matrix: (soil/water) WATER Lab Sample ID: T2812-13 Sample wt/vol: 1000 (g/mL) MLLab File ID: % Moisture: _____ decanted: (Y/N)____ Date Received: 01/10/03 Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:01/10/03 Concentrated Extract Volume: 5000(uL) Date Analyzed: 01/14/03 Injection Volume: 2.0(uL) Dilution Factor: 1.0 GPC Cleanup: (Y/N) N pH: 6.0 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q 309-00-2-----Aldrin 0.050 U 319-84-6-----alpha-BHC 0.050 U 319-85-7-----beta-BHC 0.10 U 319-86-8-----delta-BHC 0.050 U 0.050 U 0.20 U 72-55-9-----4,4'-DDE 0.10 U 50-29-3-----4,4'-DDT 0.30 U 60-57-1-----Dieldrin 0.10 U 959-98-8-----Endosulfan I 0.10 U 33213-65-9----Endosulfan I \overline{I} 0.20 U 1031-07-8-----Endosulfan sulfate 0.20 U 72-20-8-----Endrin 7421-93-4-----Endrin Aldehyde 0.20 U 0.20 U 0.050 U 0.050 U 0.50 U 8001-35-2-----Toxaphene 12674-11-2----Aroclor-1016 5.0 U 0.50 U 11104-28-2----Aroclor-1221 11141-16-5----Aroclor-1232 1.0 U 0.50 U 53469-21-9----Aroclor-1242 0.50 U 12672-29-6-----Aroclor-1248 0.50 U 11097-69-1-----Aroclor-1254 0.50 U 11096-82-5-----Aroclor-1260 0.50 U 53494-70-5----Endrin Ketone 0.50 U 5103-74-2----gamma-Chlordane 0.050 U 5103-71-9-----alpha-Chlordane 0.10 U

GW-MW07

Lab Name: COMPUCHEM Contract: 8081A

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812

Matrix: (soil/water) WATER Lab Sample ID: T2812-8

Sample wt/vol: 1000 (g/mL) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 01/09/03

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:01/09/03

Concentrated Extract Volume: 5000(uL) Date Analyzed: 01/13/03

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 5.0 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q 309-00-2-----Aldrin 0.050 U 319-84-6----alpha-BHC 0.050 U 319-85-7-----beta-BHC 0.10 U 319-86-8-----delta-BHC 0.050 U 58-89-9-----gamma-BHC (Lindane) 0.050 U 72-54-8-----4,4'-DDD 0.20 U 72-55-9-----4,4'-DDE 0.10 U 50-29-3-----4,4'-DDT 0.30 U 60-57-1-----Dieldrin 0.10 U 959-98-8-----Endosulfan I 0.10 U 33213-65-9-----Endosulfan I \overline{I} 0.20 U 1031-07-8-----Endosulfan sulfate___ 0.20 U 72-20-8-----Endrin 0.20 U 0.20 U 7421-93-4----Endrin Aldehyde 76-44-8------Heptachlor Epoxide 0.050 U 0.050 U 72-43-5-----Methoxychlor____ 0.50 U 8001-35-2----Toxaphene 5.0 U 12674-11-2-----Aroclor-1016 0.50 U 11104-28-2-----Aroclor-1221 1.0 U 11141-16-5-----Aroclor-1232 0.50 U 53469-21-9----Aroclor-1242 0.50 U 12672-29-6-----Aroclor-1248 0.50 U 11097-69-1-----Aroclor-1254 0.50 U 11096-82-5-----Aroclor-1260 0.50 U 53494-70-5----Endrin Ketone 0.50 U 5103-74-2----gamma-Chlordane 0.050 U 5103-71-9-----alpha-Chlordane 0.10 U

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

GW-MW08

Lab Name: COMPUCHEM Contract: 8081A

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812

Matrix: (soil/water) WATER Lab Sample ID: T2812-4

Sample wt/vol: 1000 (g/mL) ML Lab File ID:

decanted: (Y/N)___ % Moisture: Date Received: 01/08/03

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:01/08/03

Concentrated Extract Volume: 5000(uL) Date Analyzed: 01/10/03

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.0 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L O

309-00-2	ם ממממ ט
319-84-6alpha-BHC 0.050 319-85-7beta-BHC 0.10 319-86-8delta-BHC 0.050 58-89-9gamma-BHC (Lindane) 0.050 72-54-84,4'-DDD 0.20 72-55-94,4'-DDE 0.10	ם ממממ ט
319-85-7beta-BHC 0.10 319-86-8delta-BHC 0.050 58-89-9gamma-BHC (Lindane) 0.050 72-54-84,4'-DDD 0.20 72-55-94,4'-DDE 0.10	ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט
319-86-8delta-BHC 0.050 58-89-9gamma-BHC (Lindane) 0.050 72-54-84,4'-DDD 0.20 72-55-94,4'-DDE 0.10	บ บ บ บ บ
58-89-9	บ บ บ บ บ
72-54-84,4'-DDD 0.20 72-55-94,4'-DDE 0.10	บ บ บ บ
72-55-94,4'-DDE 0.10	บ บ บ
FA 88 8	U U U
1 30 23 3	U U
60-57-1Dieldrin 0.10	U
959-98-8Endosulfan I 0 10	_
33213-65-9Endosulfan II 0.20	
1031-07-8Endosulfan sulfate0.20	_
72-20-8Endrin 0.20	
7421-93-4Endrin Aldehyde 0.20	
76-44-8Heptachlor 0.050	
1024-57-3Heptachlor Epoxide 0.050	
72-43-5Methoxychlor 0.50	
8001-35-2Toxaphene 5 n	
12674-11-2Aroclor-1 016	
11104-28-2Aroclor-1221	
11141-16-5Aroclor-1232 0.50	
53469-21-9Aroclor-1242 0.50	
12672-29-6Aroclor-1248	
11097-69-1Aroclor-1254 0.50	
11096-82-5Aroclor-1260 0 50	
53494-70-5Endrin Ketone 0 50	
5103-74-2qamma-Chlordane 0.050	
5103-71-9alpha-Chlordane0.10	
	_

GW-MW09

0

Lab Name: COMPUCHEM Contract: 8081A

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812

Matrix: (soil/water) WATER Lab Sample ID: T2812-11

Sample wt/vol: 1000 (g/mL) ML Lab File ID:

% Moisture: ____ decanted: (Y/N) ___ Date Received: 01/10/03

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:01/10/03

Concentrated Extract Volume: 5000(uL) Date Analyzed: 01/14/03

Injection Volume: 2.0(uL) Dilution Factor: 1.0

CAS NO. COMPOUND

53494-70-5----Endrin Ketone

5103-74-2----gamma-Chlordane

5103-71-9-----alpha-Chlordane

GPC Cleanup: (Y/N) N pH: 6.0 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

309-00-2-----Aldrin 0.050 U 319-84-6-----alpha-BHC 0.050 U 319-85-7-----beta-BHC_ 0.10 U 319-86-8-----delta-BHC 0.050 U 58-89-9----gamma-BHC (Lindane) 0.050 U 0.20 U 72-55-9-----4,4'-DDE 0.10 U 50-29-3-----4,4'-DDT 0.30 U 60-57-1------Dieldrin 0.10 U 959-98-8-----Endosulfan I 0.10 U 33213-65-9-----Endosulfan I \overline{I} 0.20 U 1031-07-8-----Endosulfan sulfate 0.20 U 72-20-8-----Endrin 0.20 U 7421-93-4-----Endrin Aldehyde 0.20 U 76-44-8------Heptachlor 1024-57-3------Heptachlor Epoxide 0.050 U 0.050 U 72-43-5-----Methoxychlor 0.50 U 8001-35-2----Toxaphene 5.0 U 12674-11-2----Aroclor-1016 0.50 U 11104-28-2-----Aroclor-1221 1.0 U 11141-16-5-----Aroclor-1232 0.50 U 53469-21-9-----Aroclor-1242 0.50 U 12672-29-6-----Aroclor-1248 0.50 U 11097-69-1-----Aroclor-1254 0.50 U 11096-82-5----Aroclor-1260 0.50 U

0.50 U

0.10 0

0.050 U

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

GW-MW10

Lab Name: COMPUCHEM Contract: 8081A SDG No.: T2812 Lab Code: LIBRTY Case No.: SAS No.: Lab Sample ID: T2812-6 Matrix: (soil/water) WATER Sample wt/vol: 1000 (g/mL) ML Lab File ID: Date Received: 01/09/03 % Moisture: decanted: (Y/N) Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:01/09/03 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 01/13/03 Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N Sulfur Cleanup: (Y/N) N

pH: 6.0

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg		Q
309-00-2 319-84-6 319-85-7 319-86-8 58-89-9 72-54-8 50-29-3 50-29-3 959-98-8 959-98-8 72-20-8 7421-93-4 7421-93-4 76-44-8 1024-57-3 8001-35-2 1104-28-2 11104-28-2 11104-28-2 112672-29-6 11097-69-1	Aldrinalpha-BHCbeta-BHCdelta-BHCqamma-BHC (Linda4,4'-DDD4,4'-DDTDieldrinEndosulfan IEndosulfan sulfaEndrin AldehydeHeptachlorHeptachlorMethoxychlorToxapheneAroclor-1016Aroclor-1221Aroclor-1242Aroclor-1248Aroclor-1254	ane)ane	0.050 0.050 0.10 0.050 0.20 0.10 0.30 0.10 0.10 0.20 0.20 0.20 0.20 0.50 0.50 0.50	ממממממממממממממממ
11096-82-5 53494-70-5 5103-74-2	Aroclor-1254 Aroclor-1260 Endrin Ketone gamma-Chlordane alpha-Chlordane		0.50 0.50 0.50 0.050 0.10	บ บ บ

GW-MW11

Lab Name: COMPUCHEM Contract: 8081A

Case No.: Lab Code: LIBRTY SAS No.: SDG No.: T2812

Matrix: (soil/water) WATER Lab Sample ID: T2812-7

1000 (g/mL) ML Sample wt/vol: Lab File ID:

% Moisture: decanted: (Y/N)_ Date Received: 01/09/03

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:01/09/03

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 01/13/03

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 5.0 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

309-00-2Aldrin	0.050	11
319-84-6alpha-BHC	0.050	
319-85-7beta-BHC	0.10	_
319-86-8delta-BHC	0.050	ľ
58-89-9gamma-BHC (Lindane)	0.050	1
72-54-84,4'-DDD	0.20	1
72-55-94,4'-DDE	0.10	~
50-29-34,4'-DDT	0.30	-
60-57-1Dieldrin	0.10	
959-98-8Endosulfan I	0.10	I
33213-65-9Endosulfan II	0.20	_
1031-07-8Endosulfan sulfate	0.20	
72-20-8Endrin	0.20	I
7421-93-4Endrin Aldehyde_	0.20	
76-44-8Heptachlor	0.050	
1024-57-3Heptachlor Epoxide	0.050	_
72-43-5Methoxychlor	0.50	
8001-35-2Toxaphene	5.0	-
12674-11-2Aroclor-1016	0.50	
11104-28-2Aroclor-1221	1.0	
11141-16-5Aroclor-1232	0.50	U
53469-21-9Aroclor-1242	0.50	
12672-29-6Aroclor-1248	0.50	
11097-69-1Aroclor-1254	0.50	U
11096-82-5Aroclor-1260	0.50	i
53494-70-5Endrin Ketone	0.50	
5103-74-2gamma-Chlordane	0.050	Ŭ
5103-71-9alpha-Chlordane	0.10	U
	l	

5 W 840 ME I ALS

INORGANIC ANALYSES DATA SHEET

					-
ER-	SS-	01	080)3	

			YSES DATA SHEE	-		E	PA SAMP	LE NO.
					Γ		ER-SS-0	10803
ab Name: COM	PUCHEM	Cont	ract:					
ab Code: LIE	RTY Case No	o.: s	AS No.:		SDG I	or	T2812	
atrix (soil/v	water): WATER		Lab Sample I	D.	T2812	2-0		
evel (low/med			_					
			Date Receive	a :	1/9/0	13		_
Solids: 0.0	Concentr	ration Units (ug/		Τ			L	
	CAS No.	Analyte	Concentration	C	Ω	M		
	7429-90-5	Aluminum	15.6	В		P	i	
	7440-36-0	Antimony	4.4	В	Ī	P	j	
	7440-38-2	Arsenic	3.7	U		P	Ī	
	7440-39-3	Barium	0.57	В	E	P	Ī	
	7440-41-7	Beryllium	0.20	ַ	1	P	Ì	
	7440-43-9	Cadmium	0.40	U	1	P	1	
	7440-70-2	Calcium	38.8	В	1	P	Ī	
	7440-47-3	Chromium	1.0	В	Ī	P	Ī	
	7440-48-4	Cobalt	0.50	U	1	P	<u></u>	
	7440-50-8	Copper	1.5	U	1	P	TUL	
	7439-89-6	Iron	35.1	В		P	Ī	
	7439-92-1	Lead	1.1	Ιū		P	Ī	1/2
	7439-95-4	Magnesium	64.4	В		P	Ĭ	4/1/13
	7439-96-5	Manganese	0.22	B	1	P	Ì	
	7439-97-6	Mercury	0.11	В	1	CV	1	
	7440-02-0	Nickel	1.0	U	1	P	Ì	
	7440-09-7	Potassium	68.4	Ū	[P	ĺ	
	7782-49-2	Selenium	2.6	U		P	ĺ	
	7440-22-4	Silver		U	<u> </u>	P		
	7440-23-5	Sodium	261	В		P	K	
	7440-28-0	Thallium	4.4	U		P		
	7440-62-2	Vanadium		U		P		
	7440-66-6	Zinc	3.8	В	*	P		

SW840 METALS -1-

INORGANIC ANALYSES DATA SHEET

ER-	\$\$-0	10903	

						Γ		ER-\$\$-0	10903	
Lab Name:	COMPUC	НЕМ	Cont	ract:					<u>.</u>	
Lab Code:	LIBRTY	Case N	o.:s	AS No.:		SDG	Νο.:	T2812		
Matrix (soi	il/wate	er): WATER		Lab Sample I	D:	T281	2-14			
Level (low,	/med):	LOW		Date Receive	d:	1/10				
% Solids:	0.0						<u> </u>			
* SOLICE:	0.0									
		Concent:	ration Units (ug	/L or mg/kg dry	weig	nt):	UG/	<u>L</u>		
		CAS No.	Analyte	Concentration	С	Ω	М			
		7429-90-5	Aluminum	11.8	ਹ		P	i		
		7440-36-0	Antimony	2.3	<u>י</u>	<u> </u>	P	İ		
		7440-38-2	Arsenic	3.7	ָ טן		P	Ī		
		7440-39-3	Barium	0.49	В	E	P	Ī		
		7440-41-7	Beryllium	0.20	ען		P	Ì		
		7440-43-9	Cadmium	0.40	U		P	Ì		
		7440-70-2	Calcium	23.3	В		P	1		
		7440-47-3	Chromium	1.0	B		P	Ī		
		7440-48-4	Cobalt	0.50	ן ט		P	Ī		
		7440-50-8	Copper	1.5	U		P	jul		
		7439-89-6	Iron	15.9	B		P	Ī		
		7439-92-1	Lead	1.4	B		P	ĪΚ		
		7439-95-4	Magnesium	60.8	В		P	Ī		
		7439-96-5	Manganese	0.20	U		P	Ī	4/1/23	
		7439-97-6	Mercury	0.10	В		CV		1	
		7440-02-0	Nickel	1.0	Įυ		P	ĺ		
		7440-09-7	Potassium	81.1	B		P	IK		
		7782-49-2	Selenium	2.6	U		P	Ī		
		7440-22-4	Silver	0.70	ן ט		P	j		
		7440-23-5	Sodium	242	B	!	P	iK.		
-		7440-28-0	Thallium	4.4	ן טן		P	Ì		
		7440-62-2	Vanadium	0.40	U		P	İ		
		7440-66-6	Zinc	2.2	В	*	P			
Color Bef	fore: (COLORLESS	Clarity Before:	CLEAR	Te	extur	a -			
	-		<u>-</u>				-•		<u> </u>	
Color Aft	er: C	COLORLESS	Clarity After:	CLEAR	Ar	tifac	cts:			
Comments:					·		·	· - · · · · ·	· · · · · · · · · · · · · · · · · · ·	
										

5 W 640 ME 1 ALS -1-

INORGANIC ANALYSES DATA SHEET

						Г		GW-MW01
Lab Name:	COMPUCH	IEM	Conti	ract.		L		
			-					
Lab Code:	LIBRIA	Case No.:	S.	AS No.:		SDG 1	No.:	T2812
Matrix (so	il/water	r): WATER	- 	Lab Sample I	D:	T281	2-1	
Level (low	/med):	LOW		Date Receive	d:	1/8/	03	· -
0.0.1.1						<u>=, =, </u>		·····
% Solids:	0.0	_						
		Concentrat	ion Units (ug/	L or mg/kg dry	woid	*h+1 ·	UG/	I.
			(-9,	- or mg, mg dry		,, .		
		CAS No.	Analyte	Concentration	С	Ω	М	
		7429-90-5	Aluminum	93.6	В		P	<u> </u>
		7440-36-0	Antimony	5.1	В		P	ĪВ
		7440-38-2	Arsenic	3.7	Ū	1	P	1
		7440-39-3	Barium	5.2	В	E	P	1
		7440-41-7	Beryllium	0.20	שן	1	P	1
		7440-43-9	Cadmium	0.40	U		P	1
		7440-70-2	Calcium	13000	L		P	Ī
		7440-47-3	Chromium	1.8	В		P	ĪB
		7440-48-4	Cobalt	0.59	В		P	Ī
		7440-50-8	Copper	1.5	U	1	P	ĪUL .
		7439-89-6	Iron	 650	Ţ		P	Ĩ
		7439-92-1	Lead	1.1	U		P	Ī
		7439-95-4	Magnesium	1280	1		P	Ī
		7439-96-5	Manganese	19.6			P	Ī
		7439-97-6	Mercury	0.11	В		CV	ĪÞ
		7440-02-0	Nickel	1.0	U		P	1
		7440-09-7	Potassium	1130			P	ĨK
		7782-49-2	Selenium	2.6	ַ ט		P	Ī
		7440-22-4	Silver	0.70	U		P	Ī
		7440-23-5	Sodium	4140			P	Ī
		7440-28-0	Thallium	1 4.4	<u>U</u>		P	41/1/2
		7440-62-2	Vanadium	1.2	В		P	·
		7440-66-6	Zinc	309	1	*	P	ÍΣ
			·					.
Color Be	Fore: CO	LORLESS C1	arity Before:	CLEAR	Te	xture	: -	•
Color Aft	ter: CO	LORLESS C1.	arity After	CLEAD	۸	+ i = -		

Color Before:	COLORLESS	Clarity Before:	CLEAR	Texture:	-T
Color After:	COLORLESS	Clarity After:	CLEAR	Artifacts:	
Comments:	······································	· · · · · · · · · · · · · · · · · · ·			
			· · · -		
					11

SW840 METALS -1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

GW-MW02

Lab Name: COMPUCHEM Contract:	
Matrix (soil/water): WATER Lab Sample ID: T2812-2 Level (low/med): LOW Date Received: 1/8/03 % Solids: 0.0 Concentration Units (ug/L or mg/kg dry weight): UG/L CAS No. Analyte Concentration C Q M 7429-90-5 Aluminum 260 P	
Level (low/med): LOW	
Concentration Units (ug/L or mg/kg dry weight): UG/L CAS No. Analyte Concentration C Q M 7429-90-5 Aluminum 260 P	
Concentration Units (ug/L or mg/kg dry weight): UG/L CAS No. Analyte Concentration C Q M 7429-90-5 Aluminum 260 P	
CAS No. Analyte Concentration C Q M 7429-90-5 Aluminum 260 P	
CAS No. Analyte Concentration C Q M 7429-90-5 Aluminum 260 P	
7429-90-5 Aluminum 260 P	
7429-90-5 Aluminum 260 P	
7440-38-2 Arsenic 3.7 U P	
7440-39-3 Barium 13.0 E P	
7440-41-7 Beryllium 0.20 U P	
7440-43-9 Cadmium 0.40 U P	
7440-70-2 Calcium 20900 P	
7440-47-3 Chromium 2.2 B P 6	
7440-48-4 Cobalt 0.50 U P	
7440-50-8 Copper 1.5 U P U	
7439-89-6 Iron 192 P	
7439-92-1 Lead 1.8 B P B	
7439-95-4 Magnesium 2720 P	
7439-96-5 Manganese 14.4 P	
7439-97-6 Mercury 0.12 B CV B	
7440-02-0 Nickel 1.0 U P	
7440-09-7 Potassium 2380 P	
7782-49-2 Selenium 2.6 U P	
7440-22-4 Silver 0.70 U P	
7440-23-5 Sodium 4970 P	
7440-28-0 Thallium 4.4 U P	
7440-62-2 Vanadium 2.0 B P	4
7440-66-6 Zinc 58.8 x P J y 1	* 1 * 1
Color Before: COLORLESS Clarity Before: CLOUDY Texture:	
Color After: COLORLESS Clarity After: CLOUDY Artifacts:	

Comments:

5 W 540 IVIE I ALS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

					GW	-MW02-D
Lab Name: COMP	UCHEM	Contr	act:	١	<u> </u>	
Lab Code: LIBR		SA	S No.:	SDG	No.: T2	812
Matrix (soil/wa	ter): WATER	 	Lab Sample II	D: <u>T28</u>	12-3	
Level (low/med)	: LOW		Date Received	d: 1/8,	/03	
P 0.311 0.0						
% Solids: 0.0						
	Concentrat	ion Units (ug/	L or mg/kg dry	weight):	UG/L	
	CAS No.	Analyte	Concentration	СО	М	
	7429-90-5	Aluminum	890	1 1	P	
	7440-36-0	Antimony	4.5	B	1 P 1 B	
	7440-38-2	Arsenic	3.7	U	P	
	7440-39-3	Barium	15.7	E	P	
	7440-41-7	Beryllium	0.20	u	P	
	7440-43-9	Cadmium	1.1	B	P	
	7440-70-2	Calcium	20600	1 1	P	
	7440-47-3	Chromium	6.0	11	P	
	7440-48-4	Cobalt	0.50	ן ט	P	
	7440-50-8	Copper	1.9	B	PL	
	7439-89-6	Iron	972		P	
	7439-92-1	Lead	4.0		1 P B	
	7439-95-4	Magnesium	2700		P	
	7439-96-5	Manganese	17.2		P	
	7439-97-6	Mercury	0.12	B	1 cv 1 B	
	7440-02-0	Nickel	2.5	B	P	
	7440-09-7	Potassium	2380	1	P	
	7782-49-2	Selenium	2.6	u	P	
	7440-22-4	Silver	0.70	n	P	
	7440-23-5	Sodium	4930	1 1	P	
	7440-28-0	Thallium	4.4	ן ט	P	
	7440-62-2	Vanadium	4.2	B	P	
	7440-66-6	Zinc	173	*	I P I J	
						4/1/2
Color Before:	COLORLESS C1	arity Before:	CLOUDY	Textur	:e:	
Color After:	COLORLESS C1	arity After:	CLOUDY	Artifa	icts:	

Color Before: COLORLESS Clarity Before: CLOUDY Texture:

Color After: COLORLESS Clarity After: CLOUDY Artifacts:

Comments:

5 W 840 IVIE I ALS -1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

_	_	 					 _	_	_		
		G	7-	MV	7 0	3					

Lab Name:	COMPUC	нем	Contra	ct:			· · · · ·		
Lab Code:	LIBRTY	Case No.:	SAS	No.:	_	SDG No	o.:	T2812) •
Matrix (so	il/wate	r): WATER		Lab Sample II) :	T2812	-16		
Level (low		LOW		Date Received	d:	1/15/0	03		
readt (TOM	//med).	1011							
% Solids:	0.0								
		Commentent	ion Units (va/I	or mg/kg dry	weic	rht):	UG/I	·	
		Concentrat.	ron onica (ag/ z	or mg, ng urg		,			
		CAS No.	Analyte	Concentration	С	Q	М		
		7429-90-5	Aluminum	227			P		
		7440-36-0	Antimony	3.1	B	<u> </u>	P	<u>1</u> B	
		7440-38-2	Arsenic	3.7	U	1	P	1	
		7440-39-3	Barium	9.3		E	P	_	
		7440-41-7	Beryllium	0.20	ט		P	<u> </u>	
		7440-43-9	Cadmium	0.40	יטן		P	<u> </u>	
		7440-70-2	Calcium	10200	<u> </u>	<u>l</u>	P		
		7440-47-3	Chromium	1.9	В	<u> </u>	P	ĪΒ	
		7440-48-4	Cobalt	0.50	U	<u> </u>	P		
		7440-50-8	Copper	1.5	שן			<u>lur</u>	4/1/03
		7439-89-6	Iron	292	1_		P	<u> </u>	411193
		7439-92-1	Lead	1.1	U	<u> </u>	P	<u> 1</u>	
		7439-95-4	Magnesium	1130			P	_	
		7439-96-5	Manganese	36.2		1	P	<u> </u>	
		7439-97-6	Mercury	0.11	B		cv	JB .	
		7440-02-0	Nickel	1.0	U	1	P	1	
		7440-09-7	Potassium	1110	<u> </u>	1	P	ĬΚ	
		7782-49-2	Selenium	2.6	U	1	P	_	
		7440-22-4	Silver	0.70	U	1	P	1	
		7440-23-5	Sodium	3620		<u> </u>	l P	<u> </u>	
		7440-28-0	Thallium	4.4	ט	<u> </u>	P	<u> </u>	
		7440-62-2	Vanadium	1.9	В	<u> </u>	P	<u> </u>	
		7440-66-6	Zinc	76.6		*	P	٦ ٦	
Color B	efore:	COLORLESS C	larity Before:	CLEAR	- T	'exture	⊋:		
Color A	fter:	COLORLESS C	larity After:	CLEAR	- 4	rtifac	cts:		
Gamma - +									

14

5 W 840 IVIL I ALS

INORGANIC ANALYSES DATA SHEET

						ſ		GW-MV	705
Lab Name:	COMP	JCHEM	Cont	ract:					
Lab Code:	LIBR	ry Case N	o.: s	AS No.:		SDG	No.:	T2812	
Matrix (so	oil/wa	ter): WATER		Lab Sample I	D:	T281	2-12		
Level (low	/med)	: LOW		Date Receive	d:	1/10	0/03		
% Solids:	0.0								
		Concent	ration Units (ug	/L or mg/kg dry	weig	ght):	UG/	<u> </u>	
		CAS No.	Analyte	Concentration	С	Q	М		
		7429-90-5	Aluminum	56.5	В	1	P	iB	
		7440-36-0	Antimony	2.5	В	1	P	ĺŊ	
		7440-38-2	Arsenic	3.7	Įΰ	-	P	Ì .	
		7440-39-3	Barium	7.8	B	E	P	Ī	
		7440-41-7	Beryllium	0.20	ľŪ	†	P	Ī	
		7440-43-9	Cadmium	0.40	U		P	Ī	
		7440-70-2	Calcium	11100	T		P	1	
		7440-47-3	Chromium	1.3	В	Ī	P	B	
		7440-48-4	Cobalt	0.50	U	Ì	P		
		7440-50-8	Copper	1.5	ľ	T	P	JUL	١.,
		7439-89-6	Iron	802	Ī		P) (A
		7439-92-1	Lead	1.1	U	<u> </u>	P	1	×11×
		7439-95-4	Magnesium	1620	1	1	P	1	
		7439-96-5	Manganese	20.0	Ī	1	P	_	
		7439-97-6	Mercury	0.10	В	1	CV	10	
		7440-02-0	Nickel	1.0	U	1	P	ĺ	
		7440-09-7	Potassium	1040	T	Ì	P	İK	
		7782-49-2	Selenium	2.6	U	Ī	P	<u> </u>	
		7440-22-4	Silver	0.70	Ū	i	P	ĺ	
		7440-23-5	Sodium	4870	Ì	i	P	i	
		7440-28-0	Thallium	1 4.4	U	İ	P	i	
		7440-62-2	Vanadium	0.88	B	1	P	İ	
		7440-66-6	Zinc	134	i -	*	P	iケ	
Color Be		COLORLESS COLORLESS	Clarity Before:		•	extur	re:		
Comments	s: 								

SW840 METALS

INORGANIC ANALYSES DATA SHEET

Lab Name: COMPUCHE Lab Code: LIBRTY Matrix (soil/water) Level (low/med): Solids: 0.0	Case No.	: Contr	act: S No.: Lab Sample II Date Received		SDG N		T2812
atrix (soil/water)	: WATER	: SA	Lab Sample II				T2812
evel (low/med):	LOW				T2812		
evel (low/med):	LOW	- 				'~13	
	-		Pare Mederad	₹•	1/10/		
Solids: 0.0	_			۸.	1/10/	0.3	
	Concentra	tion Units (ug/	L or mg/kg dry w	veiç	ıht):	UG/1	<u>.</u>
	CAS No.	Analyte	Concentration	С	Q	М	
	7429-90-5	Aluminum	112			P	İ
	7440-36-0	Antimony	3.0	В		P	i 15
	7440-38-2	Arsenic	3.7	U		P	
	7440-39-3	Barium	18.4	Π	E	P	1
	7440-41-7	Beryllium	0.20	Ū		P	İ
	7440-43-9	Cadmium	0.41	В		P	Ī
	7440-70-2	Calcium	7970			P	1
	7440-47-3	Chromium	1.0	В		P	: B
	7440-48-4	Cobalt	0.50	U		P	
	7440-50-8	Copper	1.5	U	<u> </u>	P	IUL
	7439-89-6	Iron	884			P	İ
	7439-92-1	Lead	1.8	В		P	6
	7439-95-4	Magnesium	2090	l		P	İ
	7439-96-5	Manganese	10.6			P	
	7439-97-6	Mercury	0.10	U		CV	ĺ
	7440-02-0	Nickel	1.0	Ū		P	
	7440-09-7	Potassium	1480	1		P	ik.
	7782-49-2	Selenium	2.6	Ū		P	
	7440-22-4	Silver	 	Ū		P	
	7440-23-5	Sodium	11700	i -		P	
	7440-28-0	Thallium	4.4	<u>י</u>		P	
	7440-62-2	Vanadium		В		P	
	7440-66-6	Zinc	86.7	1	*	P	7

5W840 METALS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

	 	_
GW-MW07		

Lab Name: COMPUCHEM	Contract:	
Lab Code: LIBRTY Case No.:	SAS No.:	SDG No.: <u>T2812</u>
Matrix (soil/water): WATER	Lab Sample ID:	T2812-8
Level (low/med): LOW	Date Received:	1/9/03
% Solide: 0.0		

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	С	Q	М	
7429-90-5	Aluminum	212	 	†	P	Ì
7440-36-0	Antimony	2.3	U	İ	P	Ī
7440-38-2	Arsenic	3.7	U	Ī	P	Ì
7440-39-3	Barium	12.8	1	E	P	Ī
7440-41-7	Beryllium	0.20	U	1	P	Ī
7440-43-9	Cadmium	0.40	Įΰ		P	Ī
7440-70-2	Calcium	10100	Ī		P	Ì
7440-47-3	Chromium	2.1	В	1	P	B
7440-48-4	Cobalt	0.53	В		P	Ī
7440-50-8	Copper	1.5	U		P	iuL
7439-89-6	Iron	1390	1		P	ĺ
7439-92-1	Lead	1.1	U	<u> </u>	P	ĺ
7439-95-4	Magnesium	1210			P	ĺ
7439-96-5	Manganese	17.2	$\overline{\Box}$		P	İ
7439-97-6	Mercury	0.13	В		CV	B
7440-02-0	Nickel	1.0	υ		P	j
7440-09-7	Potassium	2170	Ī		P	
7782-49-2	Selenium	2.6	ĮŪ		P	
7440-22-4	Silver	0.70	U		P	
7440-23-5	Sodium	3160			P	L
7440-28-0	Thallium	4.4	U	Ī	P	
7440-62-2	Vanadium	1.1	В	<u> </u>	P	
7440-66-6	Zinc	177		*	P	J

Color Before:	COLORLESS	Clarity Before:	CLOUDY	Texture:	
Color After:	COLORLESS	Clarity After:	CLOUDY	Artifacts:	
Comments:					
					17-

SW846 METALS

-1-

INORGANIC ANALYSES DATA SHEET

		EFR SAMPLE NO.
		GW-WW08
Lab Name: COMPUCHEM	Contract:	
Lab Code: LIBRTY Case No.:	SAS No.:	SDG No.: <u>T2812</u>
Matrix (soil/water): WATER	Lab Sample ID:	T2812-4
Level (low/med): LOW	Date Received:	1/8/03
P Solidar 0 0		

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	С	Ω	М	
7429-90-5	Aluminum	778	1		P	Ϊ
7440-36-0	Antimony	4.0	В	İ	P	İВ
7440-38-2	Arsenic	6.0	В	<u> </u>	P	ĪB
7440-39-3	Barium	8.8	В	E	P	Ī
7440-41-7	Beryllium	0.20	U		P	Ī
7440-43-9	Cadmium	0.40	U		P	Ī
7440-70-2	Calcium	11200			P	1
7440-47-3	Chromium	2.8	B		P	ĪΒ
7440-48-4	Cobalt	0.50	U		P	1
7440-50-8	Copper	4.2	В]	P	ĪL
7439-89-6	Iron	1020			P	Ī
7439-92-1	Lead	1.2	B		P	ĪB
7439-95-4	Magnesium	1260			P	1
7439-96-5	Manganese	52.0	1		P	Ī
7439-97-6	Mercury	0.10	U		cv	1
7440-02-0	Nickel	1.0	יטן	1	P	Ī
7440-09-7	Potassium	1580	Ī		P	İK
7782-49-2	Selenium	2.6	В	ĺ	P	İK
7440-22-4	Silver	0.70	שׁ		P	1
7440-23-5	Sodium	7150	1		P	Ī
7440-28-0	Thallium	4.4	U	Ī	P	Ī
7440-62-2	Vanadium	6.3	B		P	ĺ
7440-66-6	Zinc	11.7	В	*	P	ib

41,63

Color After: COLORLESS Clarity After: CLOUDY Artifacts: Comments:	 Texture:	CLOUDY	Clarity Before:	COLORLESS	Color Before:
Comments:	 Artifacts: _	CLOUDY	Clarity After:	COLORLESS	Color After:
					Comments:
					

5 W 540 IVIE 1 ALS -1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

	 _
GW-MW09	

Lab Name: COMPUCHEM		Contra	ct·		L		
.,,	Case No.:	 	No.:		SDG 1	J o •	T2812
hab code: hibkii	case No.:						12012
Matrix (soil/water): W.F.	TER		Lab Sample II	D:	T2812	2-11	
Level (low/med): LOW_			Date Received	d:	1/10/	/03	
% Solids: 0.0							_
C	oncentratio	n Units (ug/L	or mg/kg dry	weid	ht):	UG/1	Ĺ
CA	AS No.	Analyte	Concentration	c	Ω	М	
<u> </u>				 	ļ	_	
<u></u>		Aluminum	284	177	<u> </u>	P	<u> </u>
· .		Intimony		U	<u> </u>	P	<u> </u>
<u></u>		Arsenic		la	!	P	<u> </u>
		Barium	30.8	<u> </u>	E	P	
<u></u>		Seryllium		U	1	P	
<u></u>		admium	0.71	В	1	P	<u> </u>
744	0-70-2	Calcium	12600	<u> </u>	<u> </u>	P	
744	0-47-3 0	Chromium	2.2	B	1	P	18
744	0-48-4	Cobalt	0.50	טן		P	1
744	0-50-8	Copper	1.5	U		P	jul
7439	9-89-6 1	ron	1120	1		P	
743	9-92-1 I	ead	1.1	U	Ī	P	
743	9-95-4 M	fagnesium	1460	1	Ī	P	
7439	9-96-5 M	langanese	26.7	T	Ī	P	
7439	9-97-6 M	fercury	0.10	ľŪ	<u> </u>	CV	
7440	0-02-0 N	lickel	1.0	ĪŪ	i	P	:
7440	0-09-7 P	otassium	2040	i	İ	P	
7782	2-49-2 S	elenium	· · · · · · · · · · · · · · · · · · ·	ĺυ	1	l P	
7440)-22-4 S	ilver		U	.	P	
7440	<u></u>	odium	7740	`	i İ	l P	

Color Before:	COLORLESS	Clarity Before:	CLEAR	Texture:	
Color After:	COLORLESS	Clarity After:	CLEAR	Artifacts:	
Comments:				· · · · · · · · · · · · · · · · · · ·	
 					19

4.4

0.40

100

U

U

P

PIJ

P

7440-28-0

7440-62-2

7440-66-6

Thallium

Vanadium

Zinc

5 W 640 IVIE I ALS

INORGANIC ANALYSES DATA SHEET

Lab Name: COMPU					- 1		GW-M	
	CHEM	Contr	act:		!_ _			
Lab Code: LIBRT	Y Case No	.: SA	S No.:		SDG N	o.:	T2812	
		•	Ich Cample II		magaa	_6		
Matrix (soil/wat	er): WATER		Lab Sample II		T2812			
Level (low/med):	TOM		Date Received	d:	1/9/0	3		
& Solids: 0.0								
							•	
	Concentr	ation Units (ug/	L or mg/kg dry	weig	ht):	UG/I	L 	
	CAS No.	Analyte	Concentration	С	Q	М	Ī	
						<u> </u>	ļ	
	7429-90-5	Aluminum	953	<u> </u>	<u> </u>	P	!	
	7440-36-0	Antimony	2.8	В	<u> </u>	P	16	
	7440-38-2	Arsenic	4.9	В	<u> </u>	P	<u>I</u> B	
	7440-39-3	Barium	10.8	-	E	P	<u> </u>	
	7440-41-7	Beryllium	0.20	ĺυ	<u> </u>	P	<u> </u>	
	7440-43-9	Cadmium	0.40	ע	<u> </u>	P	<u>}</u>	
	7440-70-2	Calcium	26700	<u> </u>	!	P	_	
	7440-47-3	Chromium	4.4	В	<u> </u>	l P	<u>I</u> B	
	7440-48-4	Cobalt	0.50	U	<u> </u>	P	<u>l</u> .	
	7440-50-8	Copper	1.5	ען	<u> </u>	P	Jul	
	7439-89-6	Iron	3240	1	<u> </u>	P	<u> </u>	4/163
	7439-92-1	Lead	1.3	B	<u> </u>	P	ΙB	41163
	7439-95-4	Magnesium	3160	<u> </u>		P	<u> </u>	
	7439-96-5	Manganese	122	<u> </u>	<u> </u>	P	1	
	7439-97-6	Mercury	0.12	В	<u> </u>	CV	B	
	7440-02-0	Nickel	1.0	ln	<u> </u>	P	1	
	7440-09-7	Potassium	4920		<u> </u>	P	1	
	7782-49-2	Selenium	2.6	ט	<u> </u>	P	1	
	7440-22-4	Silver	0.70	U	<u> </u>	P	<u> </u>	
	7440-23-5	Sodium	4840	1		P	1	
	7440-28-0	Thallium	4.4	U	<u> </u>	P	<u> </u>	
	7440-62-2	Vanadium	4.6	B	<u> </u>	P		
	7440-66-6	Zinc	12.0	B	 	P	13	

3 YY 040 IYLE I ALS -1-

INORGANIC ANALYSES DATA SHEET

_		
-	GW-MW11	

					GW-	MW11
Lab Name: COMI	PUCHEM	Contr	act:			
Lab Code: LIB		o.: SA	AS No.:	SDG	No.: <u>T281</u>	2
Matrix (soil/wa	ater): WATER		Lab Sample ID:	T281	12-7	
Level (low/med			Date Received:			
Dever (10%) med	, <u>2011 </u>		Page Model (Ca.			
% Solids: 0.0						
	Concent	ration Units (ug/	L or mg/kg dry we	ight):	UG/L	
	CAS No.	Analyte	Concentration	C Q	М	
	7429-90-5	Aluminum	168	1	P	
	7440-36-0	Antimony	4.6 E	3	IPIB	
•	7440-38-2	Arsenic	4.8 E	3	PK	
	7440-39-3	Barium	13.1	E	P	
	7440-41-7	Beryllium	0.20	7	P	
	7440-43-9	Cadmium	0.40	7	P	
	7440-70-2	Calcium	24000	1	P	
	7440-47-3	Chromium	2.2 E	3	PB	
	7440-48-4	Cobalt	0.50	7	P	
	7440-50-8	Copper	1.5	J	PUL	
	7439-89-6	Iron	5130	i	P	
	7439-92-1	Lead	1.1	7	P	
	7439-95-4	Magnesium	2970		P	
	7439-96-5	Manganese	165	1	P	
	7439-97-6	Mercury	0.10	7	CV	
	7440-02-0	Nickel	1.0	1	P	
	7440-09-7	Potassium	2270		P	
	7782-49-2	Selenium	3.5 E	3	PK	110
	7440-22-4	Silver	0.70	·	P	flus
	7440-23-5	Sodium	4010		P	,
	7440-28-0	Thallium	4.4 U	·	P	
	7440-62-2	Vanadium	2.3 E	3	P	
	7440-66-6	Zinc	6.8 E	*	IPIB	
Color Before	COLORLESS	Clarity Before:	CLOUDY	Textur	re:	· · · · · · · · · · · · · · · · · · ·
Color After:	COLORLESS	Clarity After:	CLOUDY	Artifa	acts:	
Comments:						
-					<u>.</u>	21
_						/ l

SW846 METALS

INORGANIC ANALYSES DATA SHEET

						EPA SAMPLE NO.	_
						ER-SS-010803	
Lab Name:	COMPUCHE	<u> </u>	Cont	ract:			_
Lab Code:	LIBRTY	Case No	o.: S	AS No.:	SDG	No.: U2812	
Matrix (soi	•	: WATER		Lab Sample I	D: <u>U28</u>	12-8	
Level (low/	med):	LOW		Date Receive	d: <u>1/9</u>	/03	
% Solids:	0 0						
	0.0	•					
		Concenti	ration Units (ug	/L or mg/kg dry	weight):	: UG/L	
	1						
		CAS No.	Analyte	Concentration	СО	М	
		7429-90-5	Aluminum	11.8	U	P	
		7440-36-0	Antimony	2.3	U	P	
		7440-38-2	Arsenic	3.7	U	P	
		7440-39-3	Barium	0.56	В	P	
		7440-41-7	Beryllium	0.20	U	P	
		7440-43-9	Cadmium	0.40	U	P	
		7440-70-2	Calcium	59.2	B	P	
	ļ	7440-47-3	Chromium	1.1	B	P	
	ĺ	7440-48-4	Cobalt	0.86	B	P	
	Į	7440-50-8	Copper	1.5	10 1	IPIUL	
	ļ	7439-89-6	Iron	37.1	B	P	
	ļ	7439-92-1	Lead	1.1	U	P	
	ļ	7439-95-4	Magnesium	64.9	B	P	
		7439-96-5	Manganese	1.1	B	P 1 2	
	Į	7439-97-6	Mercury	0.10	la l	1 cv 4/1/3	
	Į	7440-02-0	Nickel	1.0	U	P	
	Į	7440-09-7	Potassium	131	B	PK	
		7782-49-2	Selenium	2.6	ן ט	P	
	Į	7440-22-4	Silver	0.70	U N	P	
		7440-23-5	Sodium	99.3	ן ט ן	P	
	Į	7440-28-0	Thallium	4.4	U	.P	
	Į.	7440-62-2	Vanadium	0.40	U	P	
	[7440-66-6	Zinc	4.8	В	P	
Color Befo	ore: COLO	DRLESS	Clarity Before:	CLEAR	Textur	re:	
Color Afte	er: COLO	PRLESS	Clarity After:	CLEAR	Artifa	·	_
Comments:	DISSOL	LVED					

5W846 METALS -1-

INORGANIC ANALYSES DATA SHEET

				1	ER-SS-010903
Lab Name: COMPUCHI	EM	Cont	ract:		
Lab Code: LIBRTY	_ Case No.:	s	AS No.:	SDG No.:	U2812
Matrix (soil/water): WATER		Lab Sample ID:	U2812-12	
Level (low/med):	LOW		Date Received:	1/10/03	
% Solids: 0.0	- .				
·	Concentrat	ion Units (ug,	/L or mg/kg dry wei	ght): UG/I	
	CAS No.	Analyte	Concentration C	Q M	
	7429-90-5	Aluminum	11.8 U	P	ļ
	7440-36-0	Antimony	2.3 U	P	
	7440-38-2	Arsenic	3.7 U	P	
	7440-39-3	Barium	0.28 B	P	
	7440-41-7	Beryllium	0.20 U	P	
	7440-43-9	Cadmium	0.40 U	P	
	7440-70-2	Calcium	7.9 [0	P	
	7440-47-3	Chromium	0.60 U	P	
	7440-48-4	Cobalt	0.50 U	P	
	7440-50-8	Copper	1.5 U	P	uL
	7439-89-6	Iron	8.7 U	P	
	7439-92-1	Lead	1.1 0	P	
	7439-95-4	Magnesium	64.1 B	P	1
	7439-96-5	Manganese	0.20 U	P	4/162
	7439-97-6	Mercury	0.10 B	CV	11.
	7440-02-0	Nickel	1.0 U	P	2
	7440-09-7	Potassium	122 B	P	K
	7782-49-2	Selenium	2.6 U	P	
	7440-22-4	Silver	0.70 [만	N P	
	7440-23-5	Sodium	99.3 U	P	
	7440-28-0	Thallium	4.4 U	P	
	7440-62-2	Vanadium	0.43 B	P	
	7440-66-6	Zinc	1.0 U	P	
Color Before: COL	ORLESS C1	arity Before:	CLEAR TO	exture:	
Color After: COL	ORLESS C1	arity After:	CLEAR A	rtifacts:	
Comments: DISSO	LVED				

SW846 METALS -1-

INORGANIC ANALYSES DATA SHEET

 EPA	SAMPLE	NO.
	GW-MW01	

Lab Name:	COMPUC	HEM	Contr	act:				
Lab Code:	LIBRTY	Case No	.: SA	S No.:	SDG	Νο.:	U2812	
Matrix (so	il/wate	er): WATER	·	Lab Sample II	D: <u>U281</u>	2-1		
Level (low	/med):	LOW		Date Received	d: <u>1/8/</u>	03		
% Solids:	0.0							_
		Concentra	ation Units (ug/	L or mg/kg dry v	weight):	UG/I	· 	
		CAS No.	Analyte	Concentration	СО	М		
		7429-90-5	Aluminum	37.9	В	P	i f	
		7440-36-0	Antimony	2.3	la l	P		
		7440-38-2	Arsenic	3.7	U	P	 	
		7440-39-3	Barium	4.9	В	P	: I	
		7440-41-7	Beryllium	0.20	U	P		
		7440-43-9	Cadmium	0.40	ן ט	P	ı	
		7440-70-2	Calcium	13600		P	ļ	
		7440-47-3	Chromium	0.60	ן ט	P		
		7440-48-4	Cobalt	0.53	В	P	В	
		7440-50-8	Copper	1.5	U	P	ÜL	
		7439-89-6	Iron	484		P		
		7439-92-1	Lead	1.3	B	P	K	
		7439-95-4	Magnesium	1330		P		11,9
		7439-96-5	Manganese	18.9		P		YIII 2
		7439-97-6	Mercury	0.10	U	CV		
		7440-02-0	Nickel	1.0	U	P		
		7440-09-7	Potassium	1340		P	K	
		7782-49-2	Selenium	2.6	U	P	•	
		7440-22-4	Silver	0.70	U N	P	UL	
		7440-23-5	Sodium	4010		P		
		7440-28-0	Thallium	4.4	U	P		
		7440-62-2	Vanadium	1.1	B	P		
		7440-66-6	Zinc	299		P		
Color Be	fore: (COLORLESS	Clarity Before:	CLEAR	Toxtur	0.		
	-				Textur	-		
Color Af	ter: (COLORLESS	Clarity After:	CLEAR	Artifa	cts: _		

Comments:

DISSOLVED

5 YV 840 IVIT. I ALS

INORGANIC ANALYSES DATA SHEET

				TODO DATA DINE	. 1		F	PA SA	MPLE NO.
						Γ	•	GW-	MW02
Lab Name:	COMPUCHE	М	Cont	Contract:					
Lab Code:	LIBRTY	Case No.	: s	AS No.:		SDG 1	10.:	U281	2
Matrix (so:	il/water)	: WATER		Lab Sample I	D:	U2812	2-2		
Level (low,	/med):	LOW		Date Receive		1/8/0			
					٠.	+/ 0/ 0	 		
% Solids:	0.0	-							
		Congontme	tion Mothe /w-	/7 /1 1			110 /		
		Concentra	tion Units (ug	/L or mg/kg dry	weig	jht):	UG/	<u> </u>	
		CAS No.	Analyte	Concentration	С	Q	М	7	
		CAS NO.	12.029 00	oomeen cracion	-	V	"		
		7429-90-5	Aluminum	86.2	В		P	Ì	
		7440-36-0	Antimony	2.3	U		P	Ī	
12		7440-38-2	Arsenic	3.7	U		P	Ī	
		7440-39-3	Barium	11.5	T		P	Ī	
		7440-41-7	Beryllium	0.20	טן		P	Ī	
		7440-43-9	Cadmium	0.40	U		P	Ī	
	}	7440-70-2	Calcium	20700	1		P	Ī	
		7440-47-3	Chromium	0.81	В		P	j B	
	ĺ	7440-48-4	Cobalt	0.50	U		P	. · ·	
	ĺ	7440-50-8	Copper	1.5	U		P	ju L	
	ĺ	7439-89-6	Iron	81.6	В		P	i'B	
	Į	7439-92-1	Lead	1.1	U		P	Ī	
		7439-95-4	Magnesium	2710			P	1	
	ĺ	7439-96-5	Manganese	13.8	Ī		<u>.</u> Р	_	1 1
		7439-97-6	Mercury	0.11	B		CV	ib	4/1/02
	ĺ	7440-02-0	Nickel	1.0	U		P		· N
	ĺ	7440-09-7	Potassium	2630	1		P		
		7782-49-2	Selenium	10.3			P	Ī	
	Į.	7440-22-4	Silver	0.70	U	N	P	jul	
	Ī	7440-23-5	Sodium	4860			l p	1	

Color Before	: COLORLESS	Clarity Before:	CLEAR	Texture:	
Color After:	COLORLESS	Clarity After:	CLEAR	Artifacts:	
Comments:	DISSOLVED				
					12

4860

25.9

4.4 U

1.3 B

P

P

P

P

Sodium

Zinc

Thallium

Vanadium

7440-28-0

7440-66-6

7440-62-2

SW840 METALS

INORGANIC ANALYSES DATA SHEET

Contract:

Lab Name: COMPUCHEM

EPA SAMPLE NO.

GW-MW02-D

Lab Code:	LIBRTY	_ Case No.:	SA	AS No.:	_	SDG 1	:.o <i>l</i>	U2812	
Matrix (so	il/water)	: WATER		Lab Sample I	D:	U281:	2-3		
Level (low	/med):	LOW		Date Receive	d:	1/8/			
% Solids:	0.0	_					<u> </u>		
		Concentrat	ion Units (ug/	L or mg/kg dry	wei	ght):	UG/	L	
		CAS No.	Analyte	Concentration	С	0	М		
		7429-90-5	Aluminum	57.3	В		P	j .	
		7440-36-0	Antimony	2.3	U	1	P	Ţ	
		7440-38-2	Arsenic	3.7	U	1	P	i	
		7440-39-3	Barium	11.4	T	Ī	P	Ĩ	
		7440-41-7	Beryllium	0.20	Įυ	<u> </u>	P	Ī	
		7440-43-9	Cadmium	0.40	U	1	P	_i 	
		7440-70-2	Calcium	20800	1	1	P	j	
		7440-47-3	Chromium	0.60	U	i	P	<u> </u>	
		7440-48-4	Cobalt	0.50	U	Ì	P	į	
		7440-50-8	Copper	1.5	U	[P	iuL	
		7439-89-6	Iron	61.1	В	1	P	i b	11.5
		7439-92-1	Lead	1.1	U	1	P		
		7439-95-4	Magnesium	2720	1	Ī	P	<u>-</u> 	
		7439~96-5	Manganese	13.5	T	i .	P	<u>-</u> '	
		7439-97-6	Mercury	0.10	В	i	CV	10 11	
		7440-02-0	Nickel	1.0	Ū	<u>.</u>	P	4/1/13	
		7440-09-7	Potassium	2620	<u> </u>	<u>. </u>	P	1	
		7782-49-2	Selenium	10.2	İ	i	P	i	
		7440-22-4	Silver	0.70	Ū	И	P	iuc	
		7440-23-5	Sodium	4720	Ĺ	i i	P		
		7440-28-0	Thallium	4.4	U	İ	P	i	
		7440-62-2	Vanadium	1.5	В	İ	l P	İ	
	ļ	7440-66-6	Zinc	27.0	İ	.	<u> </u>	i	
0-1		7440-66-6	Zinc	27.0	B		P		
Color Bei	fore: COL		arity Before:	CLEAR		exture	•		
		C16	arrey Arter:	CLEAR	Aı	ctifac	ts:		
Comments	DISSOI	LVFD							

5 W 840 WE I ALS -1-

		INC	DRGANIC ANA	LYSES DATA SHEET		E	PA SAMPLE NO.
							GW-MW03
Lab Name:	COMPUCHE	м	Cont	ract:		L	
Lab Code:	LIBRTY	Case No.:		SAS No.:	SDG	No.;	<u>U2812</u>
Matrix (soi	il/water)	: WATER		Lab Sample ID:	U28	12-13	
Level (low/	/med):	LOW		Date Received:		5/03	
% Solids:	0.0				-/	3703	
		Concentrat	ion Units (ug	/L or mg/kg dry we	ight):	uG/	L
		CAS No.	Analyte	Concentration (C Q	М	
	İ	7429-90-5	Aluminum	207	 	P	i
	j	7440-36-0	Antimony	2.3 [U	' 	P	i
	ĺ	7440-38-2	Arsenic	3.7 [0	'	P	i
	Ī	7440-39-3	Barium	8.8 B		P	İ
	Į.	7440-41-7	Beryllium	0.20 U	i -	P	İ
	Ĺ	7440-43-9	Cadmium	0.40 U	<u> </u>	P	İ
	ĺ	7440-70-2	Calcium	10400		P	:
	ĺ	7440-47-3	Chromium	1.2 B	j	P	ß
		7440-48-4	Cobalt	0.50 U	Ì	P	
	Ĺ	7440-50-8	Copper	2.1 B	1	P	<u>L</u>
	Ĺ	7439-89-6	Iron	247	1	P	: }
	[7439-92-1	Lead	1.4 B	<u> </u>	P	14 11/03
	Į	7439-95-4	Magnesium	1150	Ì	P	4/11/2
	{	7439-96-5	Manganese	37.2	Ī	P	
		7439-97-6	Mercury	0.13 B	Ī	CV	B
		7440-02-0	Nickel	1.5 B	<u> </u>	P	_
		7440-09-7	Potassium	1250	<u> </u>	P	K
		7782-49-2	Selenium	3.1 B	i	P	K
		7440-22-4	Silver	0.70 U	N		uL
	Ĺ	7440-23-5	Sodium	3560	<u> </u>		L
		7440-28-0	Thallium	4.4 U	İ	P	
	[7440-62-2	Vanadium	1.7 B	<u> </u>	P	
		7440-66-6	Zinc	79.7		 '	

Color Before	e: COLORLESS	Clarity Before:	CLEAR	Texture:	
Color After:	COLORLESS	Clarity After:	CLEAR	Artifacts:	
Comments:	DISSOLVED				
				14	
					

SW846 METALS

INORGANIC ANALYSES DATA SHEET

	•	EPA SAMPLE NO.
		GW-MW05
Lab Name: COMPUCHEM	Contract:	
Lab Code: LIBRTY Case No.:	SAS No.:	SDG No.: U2812
Matrix (soil/water): WATER	Lab Sample ID:	U2812-10
Level (low/med): LOW	Date Received:	1/10/03
% Solids: 0.0		

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	С	Q	М		
7429-90-5	Aluminum	39.1	В	1	l P	1	
7440-36-0	Antimony	2.3	Ü	İ	P	i .	
7440-38-2	Arsenic	5.4	В	Ī	P	iK	
7440-39-3	Barium	7.7	В	<u> </u>	P		
7440-41-7	Beryllium	0.20	U	Ī	l P	<u>:</u> İ	
7440-43-9	Cadmium	0.40	U	i	P	<u>-</u> 	
7440-70-2	Calcium	11400	1	İ	P	<u>:</u> 	
7440-47-3	Chromium	0.60	U	Ì	P	<u>-</u>	
7440-48-4	Cobalt	0.50	U	i -	P	<u>:</u> 	
7440-50-8	Copper	1.5	U	Ī	P	<u>i</u> uL	
7439-89-6	Iron	885	Ī	Ī	P		
7439-92-1	Lead	1.1	Ū		P	İ	
7439-95-4	Magnesium	1700	Ī	j	P	<u>.</u>	
7439-96-5	Manganese	21.7	Ī	Ī	P	<u>:</u> 	
7439-97-6	Mercury	0.10	ΙŪ	i	CV	: 	
7440-02-0	Nickel	1.0	Ū	i –	i P	<u>:</u>	
7440-09-7	Potassium	1200	i -	i i	, P	K	
7782-49-2	Selenium	3.7	B	<u>. </u>	P	K	1 / 24
7440-22-4	Silver	0.70	Ū	N	 -	ILL	All V
7440-23-5	Sodium	4740	Ī	İ	P		
7440-28-0	Thallium	4.4	U	Ī	P	: 	
7440-62-2	Vanadium	0.79	В	Ī	P	 	
7440-66-6	Zinc	133	i i	i	l P	i	

Color Before	e: COLORLESS	Clarity Before:	CLEAR	Texture:	
Color After	COLORLESS	Clarity After:	CLEAR	Artifacts:	
Comments:	DISSOLVED				
					15

5 W 846 METALS -1-

INORGANIC ANALYSES DATA SHEET

			SES STITI STIFE	. •	E	PA SAMPLE NO.
			*			GW-MW06
Lab Name: COMPUCHE	М	Contra	act:		_	
Lab Code: LIBRTY	_ Case No.:	SAS	5 No.:	SD	G No.:	U2812
Matrix (soil/water)		Lab Sample I	D: <u>U2</u>	812-11		
Level (low/med):		Date Receive	d: <u>1/</u>	10/03		
% Solids: 0.0						
	- Concentrat:	ion Units (ug/I	or mg/kg dry	weight:): <u>UG/I</u>	
	CAS No.	Analyte	Concentration	С	Q M	
	7429-90-5	Aluminum	60.7	В	P	
	7440-36-0	Antimony	2.3	וֹטוֹ	P	
	7440-38-2	Arsenic	3.7	U	P	
	7440-39-3	Barium	17.9	TI	P	
	7440-41-7	Beryllium	0.20	U	P	
	7440-43-9	Cadmium	0.40	U	P	
	7440-70-2	Calcium	8190	1 1	P	
	7440-47-3	Chromium	0.60	U	P	
	7440-48-4	Cobalt	0.50	U	P	
	7440-50-8	Copper	1.5	U	P	UL
	7439-89-6	Iron	419	T	P	
	7439-92-1	Lead	1.1	U	P	
	7439-95-4	Magnesium	2160		P	

7439-96-5

7439-97-6

7440-02-0

7440-09-7

7782-49-2

7440-22-4

7440-23-5

7440-28-0

7440-62-2

7440-66-6

Manganese

Potassium

Selenium

Mercury

Nickel

Silver

Sodium

Zinc

Thallium

Vanadium

ster 2

PB

PK

PUL

TCV B

P

P |

P

P

Р

₽

9.7

1670

11900

4.4

0.48

88.2

0.11 B

1.0 |U |

2.6 U

0.70 U N

U

В

B

Color Before	: COLORLESS	Clarity Before:	CLEAR	Texture:	
Color After:	COLORLESS	Clarity After:	CLEAR	Artifacts:	
Comments:	DISSOLVED				
					16

SW846 METALS

-1-

		II	NORGANIC ANAL	YSES DATA SHEE	T		E	PA SAM	MPLE NO.	
						Γ		GW-N	1W07	
Lab Name:	COMPUCHE	M	Contr	act:		L				
Lab Code:	LIBRTY	_ Case No.	.: SA	AS No.:		SDG N	10.:	U2812) -	
Matrix (so	il/water)	: WATER		Lab Sample I	D:	U2812	2-7			
Level (low	/med):	LOW		Date Receive	d:	1/9/0				
% Solids:	0 0								N-11	
o sorras:	0.0	-								
		Concentra	ation Units (ug/	L or mg/kg dry	wei	ght):	UG/1	<u>. </u>		
		CAS No.	Analyte	Concentration	С	Q	М			
		7429-90-5	Aluminum	73.3	В		l P	' 		
		7440-36-0	Antimony	2.3	U	i 	P	! 		
		7440-38-2	Arsenic	3.7	U	i	 P	İ		
		7440-39-3	Barium	12.2	Ì	<u> </u>	P	i		
		7440-41-7	Beryllium	0.20	U	Ī	P	İ		
		7440-43-9	Cadmium	0.40	บ	Ī	P	İ		
		7440-70-2	Calcium	10400	Ì	<u> </u>	P	i İ		
		7440-47-3	Chromium	0.60	U		P	İ		
		7440-48-4	Cobalt	0.65	B	<u> </u>	P	B		
		7440-50-8	Copper	1.5	U	<u> </u>	P	uL		
		7439-89-6	Iron	1170	T	1	P	-		
		7439-92-1	Lead	1.1	U		P			ijar i
		7439-95-4	Magnesium	1260			P			
	i	7439-96-5	Manganese	16.9			P		4/1/3	
		7439-97-6	Mercury	0.10	U		CV		4111	
		7440-02-0	Nickel	1.0	U		P			
		7440-09-7	Potassium	2410	1		P			
		7782-49-2	Selenium	3.6	В		P	K		
		7440-22-4	Silver	0.70	U	N	P	иL		
		7440-23-5	Sodium	2930	1		P	1		
		7440-28-0	Thallium	4.4	U		P			
		7440-62-2	Vanadium	1.0	B		P			
	ļ	7440-66-6	Zinc	158			P			
Color Bef	fore: COL	ORLESS C	larity Before:	CLEAR	Те	exture	_ 			
							_			

Color Before	e: COLORLESS	Clarity Before:	CLEAR	Texture:	
Color After:	COLORLESS	Clarity After:	CLEAR	Artifacts:	
Comments:	DISSOLVED			,	
					17

SW840 METALS -1-

INORGANIC ANALYSES DATA SHEET

n r n	DM-1E TIE	INO.	
1	GW-MW08		-

Lab Name: COMPUG	~HEM	Cont	mack:	,		GW-M	
Lab Code: LIBRT			ract: AS No.:	SDG	No.:	U2812	
fatrix (soil/wate	er): WATER		Lab Sample II				
			_				
Level (low/med):	LOW	*	Date Received	i: <u>1/8/</u>	/03		
Solids: 0.0	 Concentra	tion Units (ug,	/L or mg/kg dry w	weight):	UG/	L	
	CAS No.	Analyte	Concentration	C Q	М		
	7429-90-5	Aluminum	63.6	В	- P	.! 	
	7440-36-0	Antimony		ן ט	P	<u> </u>	
	7440-38-2	Arsenic	· · · · · · · · · · · · · · · · · · ·	B	P	İK	
	7440-39-3	Barium		B	l P	1	
	7440-41-7	Beryllium		י ט	l P	<u>'</u> 	
	7440-43-9	Cadmium	0.40	U	P	<u>:</u> 	
	7440-70-2	Calcium	10900		P	<u>:</u> 	
	7440-47-3	Chromium	0.85	В	P	i B	
	7440-48-4	Cobalt	0.50	U	P	İ	113
	7440-50-8	Copper	1.5	U	P	IUL	41/13
	7439-89-6	Iron	355		P	Ī	
	7439-92-1	Lead	1.1	U	P	<u>.</u>	
	7439-95-4	Magnesium	1190		P	-	
	7439-96-5	Manganese	48.5	1	P		
	7439-97-6	Mercury	0.12	В	CV	B	
	7440-02-0	Nickel	2.2	В	P		
	7440-09-7	Potassium	1730		P	IK	
	7782-49-2	Selenium	2.6	<u>u </u>	P	Ì	
	7440-22-4	Silver	0.70	U N	P	uL	
	7440-23-5	Sodium	7400		P	ĺ	
	7440-28-0	Thallium	4.4	U	P		,
	7440-62-2	Vanadium	4.8	B	P	j	
		Zinc	3.6	B	P	b	

Color Befor	e: COLORLESS	Clarity Before:	CLEAR	Texture:	
Color After	: COLORLESS	Clarity After:	CLEAR	Artifacts:	
Comments:	DISSOLVED				
					18

SW840 METALS

INORGANIC ANALYSES DATA SHEET

Case No.: SAS No.: SDG No.: U2812

Contract:

Lab Name: COMPUCHEM

Lab Code: LIBRTY

 EPA	SAMPLE	NO.	
	GW-MW09		

vel (low/med):			Lab Sample II		U2812				
	LOW		Date Received	1:	1/10/	03			
Solids: 0.0									
	Concentra	ation Units (ug/	L or mg/kg dry	wei	ght):	UG/1	<u>.</u>		
	CAS No.	Analyte	Concentration	С	Q	М			
	7429-90-5	Aluminum	98.5	B	 	P	Ì		
	7440-36-0	Antimony	2.3	U	1	P	1		
	7440-38-2	Arsenic	3.7	U		P	Ī		
	7440-39-3	Barium	28.2	1	Ī	l P	Ī		
	7440-41-7	Beryllium	0.20	U		P	Ĭ		
	7440-43-9	Cadmium	0.98	В	1	P	Ī		
	7440-70-2	Calcium	12800	Ī	Ī	P	Ī		
	7440-47-3	Chromium	0.60	שׁ	1	P]		
	7440-48-4	Cobalt	1.1	B	Ī	P	IB		
	7440-50-8	Copper	2.1	В]	P	1		
	7439-89-6	Iron	1010	1	T	P]		
	7439-92-1	Lead	1.1	ĮŪ	Ī	P		. 1	
	7439-95-4	Magnesium	1530		Ī	P	Ī	41.63	
	7439-96-5	Manganese	28.0	Ī	i i	P	<u>-</u>	2	
	7439-97-6	Mercury	0.10	U	İ	CV	Ī		
	7440-02-0	Nickel	1.9	B	Ī	P	Ī		
	7440-09-7	Potassium	2320	Ī	i -	P			
	7782-49-2	Selenium	2.6	U	i i	P	ĺ		
	7440-22-4	Silver	0.70	Įυ	N	P	luL		
	7440-23-5	Sodium	8570	Ī	1	P	i		
	7440-28-0	Thallium	4.4	U	İ	P	Ī		
	7440-62-2	Vanadium	0.55	В		P	Ī		
	7440-66-6	Zinc	97.7	i -	<u> </u>	P	Ī		

5 W 540 WE I ALS -1-

		1140	ACGINIC ANAL	YSES DATA SHEE			E	PA SAMP	LE NO.
								GW-MW	10
Lab Name:	COMPUCH	EM	Cont	ract:		Ļ	-		
Lab Code:	LIBRTY	Case No.:	s	AS No.:		SDG N	lo.:	U2812	
Matrix (so	il/water): WATER		Lab Sample II	D:	U2812	:-5		
Level (low	/med)·	LOW		Date Receive		1/9/0			
				Date Necelve	u .	1/9/0	· J		-
% Solids:	0.0								
		Concentrat	ion Units (ug	/L or mg/kg dry v	wei	ght):	UG/	L .	
		CAS No.	Analyte	Concentration	С	Q	М		
		7429-90-5	Aluminum	124		1	 P	<u>!</u> 	
		7440-36-0	Antimony		Ü	.	P	<u>.</u> 	
		7440-38-2	Arsenic	3.7		i	P	-	
		7440-39-3	Barium		В		P	<u>'</u>	
		7440-41-7	Beryllium	~ 	U	<u> </u>	P	j	
		7440-43-9	Cadmium		U	İ	P	į	
		7440-70-2	Calcium	27500	Ī	<u> </u>	P	j	
		7440-47-3	Chromium	0.78	B	<u>:</u>	P	i B	
		7440-48-4	Cobalt		U	<u> </u>	P	1	
		7440-50-8	Copper	1.5	U		P	juc	
		7439-89-6	Iron	2170			P	Ī	1.1.1
		7439-92-1	Lead	1.1	U	1	P	Ī	41111
		7439-95-4	Magnesium	3260			P	Ī	
		7439-96-5	Manganese	123	1		P	Ī	
		7439-97-6	Mercury	0.12	B		CV	B	
		7440-02-0	Nickel	1.0	Ü		P	Ī	
		7440-09-7	Potassium	5520			P	Ī	
		7782-49-2	Selenium	<u> </u>	В		P	K	
		7440-22-4	Silver	0.70	U	И	P	lu∟	
		7440-23-5	Sodium	4860			P		
		7440-28-0	Thallium	4.4	Ū		P	Ī	
		7440-62-2	Vanadium	2.2	В		P	İ	
		7440-66-6	Zinc	4.4	В	ī	P	j B	

Color Before	e: COLORLESS	Clarity Before:	CLEAR	Texture:	
Color After:	COLORLESS	Clarity After:	CLEAR	Artifacts:	
Comments:	DISSOLVED				· .
					20

SW840 METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

			GW-MW11
Lab Name:	СОМРИСНЕМ	Contract:	
Lab Code:	LIBRTY Case No.:	SAS No.:	SDG No.: U2812
Matrix (so	il/water): WATER	Lab Sample ID:	U2812-6
Level (low	/med): LOW	Date Received:	1/9/03
% Solids:	0.0		
	Concentration Unit	s (ug/L or mg/kg dry wei	ght): UG/L

				.		
CAS No.	Analyte	Concentration	С	Q	М	
7429~90-5	Aluminum	85.7	В	1	P	İ
7440-36-0	Antimony	2.3	U	Π	P	Ì
7440-38-2	Arsenic	3.7	U	1	P	<u> </u>
7440-39-3	Barium	13.0		1	P	
7440-41-7	Beryllium	0.20	U		P	ĺ
7440-43-9	Cadmium	0.40	ĪŪ	ī	P	Ī
7440-70-2	Calcium	25200	1	1	P	1
7440-47-3	Chromium	0.60	U	Ī	P	Ī
7440-48-4	Cobalt	0.50	U	T	P	Ī
7440-50-8	Copper	1.5	U	T	P	ILL
7439-89-6	Iron	4650		<u> </u>	P	Ī
7439-92-1	Lead	1.2	В	Ī	P	IK
7439-95-4	Magnesium	3100		T	P	1
7439-96-5	Manganese	167	1	1	P	Ī
7439-97-6	Mercury	0.10	ĮU		CV	1
7440-02-0	Nickel	1.0	U	1	P	
7440-09-7	Potassium	2670	1	$\overline{\top}$	P	Ì
7782-49-2	Selenium	3.0	В	Ī	P	iK
7440-22-4	Silver	0.70	U	N	P	luL
7440-23-5	Sodium	4100	1	1	l P	
7440-28-0	Thallium	4.4	U	1	P	ĺ
7440-62-2	Vanadium	2.0	В	1	P	Ī
7440-66-6	Zinc	4.9	В	1	P	B
		· · · · · · · · · · · · · · · · · · ·				-

Color Before	: YELLOW	Clarity Before:	CLEAR	Texture:	
Color After:	YELLOW	Clarity After:	CLEAR	Artifacts:	
Comments:	DISSOLVED				
					21
			······································		<u></u>

CLIENT SAMPLE NO.

GW-6MW-3D

Method: 8260B ab Name: COMPUCHEM

Case No.: SAS No.: SDG No.: Q2849 Lab Code: LIBRTY

Lab Sample ID: Q2849-1 Matrix: (soil/water) WATER

Lab File ID: Q2849-1B59 (q/ml) ML Sample wt/vol: 5

Level: (low/med) LOW Date Received: 01/15/03

% Moisture: not dec. _____ Date Analyzed: 01/22/03

GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 0 75-71-8-----Dichlorodifluoromethane 74-87-3-----Chloromethane 75-01-4-----Vinyl Chloride 74-83-9-----Bromomethane 75-00-3-----Chloroethane 75-69-4-----Trichlorofluoromethane 75-35-4-----1,1-Dichloroethene____ 75-15-0------Carbon disulfide 76-13-1----1,1,2-trichloro-1,2,2-triflu R 67-64-1-----Acetone 75-09-2-----Methylene Chloride 55555 U 156-60-5-----trans-1,2-Dichloroethene U 1634-04-4-----Methyl-tert-butyl ether U 75-34-3-----1,1-Dichloroethane U 156-59-2----cis-1,2-Dichloroethene U 78-93-3----2-butanone 13 U 67-66-3------Chloroform U 5 5 5 71-55-6----1,1,1-Trichloroethane U 56-23-5-----Carbon Tetrachloride__ U 71-43-2-----Benzene 5 U 107-06-2----1,2-Dichloroethane 5 5 5 5 5 U 79-01-6-----Trichloroethene U 78-87-5----1, 2-Dichloropropane U 75-27-4-----Bromodichloromethane U 10061-01-5----cis-1,3-Dichloropropene 5 U 108-10-1-----4-Methyl-2-pentanone 13 U 108-88-3-----Toluene 10061-02-6----trans-1,3-Dichloropropene 79-00-5-----1,1,2-Trichloroethane 0.9 JB 5 U 5 | U 127-18-4----Tetrachloroethene 5 U 591-78-6----2-hexanone 13 | U 124-48-1-----Dibromochloromethane 106-93-4-----1,2-Dibromoethane U 5 5 U FORM I VOA

CLIENT SAMPLE NO.

GW-6MW-3D Method: 8260B Lab Name: COMPUCHEM SDG No.: Q2849 Lab Code: LIBRTY Case No.: SAS No.: Matrix: (soil/water) WATER Lab Sample ID: Q2849-1 Sample wt/vol: 5 (g/ml) MLLab File ID: 02849-1B59 Level: (low/med) LOW Date Received: 01/15/03 % Moisture: not dec. _____ Date Analyzed: 01/22/03 GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0 Soil Extract Volume: (uL) Soil Aliquot Volume: ____(uL CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 0 108-90-7-----Chlorobenzene 5 | U 100-41-4-----Ethylbenzene U 100-42-5-----Styrene_ 75-25-2-----Bromoform U U U U U B J 5555555 U U U U U U 108-87-2-----Methylcyclohexane

U

CLIENT SAMPLE NO.

GW-6MW-3S

ab Name: COMPUCHEM Method: 8260B

Case No.: SAS No.: Lab Code: LIBRTY SDG No.: 02849

Matrix: (soil/water) WATER Lab Sample ID: Q2849-12

Sample wt/vol: 5 (g/ml) ML Lab File ID: Q2849-12A59

Level: (low/med) LOW Date Received: 01/21/03

% Moisture: not dec. Date Analyzed: 01/24/03

GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: ____(uL CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q 75-71-8-----Dichlorodifluoromethane 5 U 74-87-3-----Chloromethane 5 U 75-01-4-----Vinyl Chloride 1 J 74-83-9-----Bromomethane U 75-00-3-----Chloroethane U 75-69-4-----Trichlorofluoromethane U 75-35-4-----1,1-Dichloroethene____ U 75-15-0-----Carbon disulfide U 76-13-1----1,1,2-trichloro-1,2,2-triflu 5 U R 67-64-1-----Acetone 13 U 75-09-2-----Methylene Chloride 0.3 J 156-60-5-----trans-1,2-Dichloroethene 5 U 1634-04-4-----Methyl-tert-butyl ether 5 U 75-34-3-----1,1-Dichloroethane 5 U 156-59-2----cis-1,2-Dichloroethene___ 1 J 78-93-3-----_2-butanone_ 13 U 67-66-3-----Chloroform 5 U 71-55-6-----1,1,1-Trichloroethane___ 5 U 56-23-5-----Carbon Tetrachloride____ 5 U 71-43-2-----Benzene 0.6 J 107-06-2----1, 2-Dichloroethane U 79-01-6-----Trichloroethene 1 J 78-87-5-----1,2-Dichloropropane 5 U 75-27-4-----Bromodichloromethane U 10061-01-5----cis-1,3-Dichloropropene_ U 108-10-1-----4-Methyl-2-pentanone 13 U 108-88-3-----Toluene B 0.8 J 10061-02-6----trans-1,3-Dichloropropene 5 U 79-00-5-----1,1,2-Trichloroethane___ 5 U 127-18-4-----Tetrachloroethene 0.4 J 591-78-6----2-hexanone U U 13 124-48-1-----Dibromochloromethane 5 106-93-4-----1,2-Dibromoethane 5 U FORM I VOA

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM	•	Mothod . 02COD		GW-6MW-3S	
Lab Name: COMPUCHEM		Method: 8260B			_
Lab Code: LIBRTY	Case No.:	SAS No.:	SDG No	.: Q2849	
Matrix: (soil/water) WATER	Lab Sampl	e ID: Q	2849-12	
Sample wt/vol:	5 (g/ml) ML	Lab File	ID: Q	28 49-12A 59	
Level: (low/med)	LOW	Date Rece	eived: 0	1/21/03	
% Moisture: not dec	•	Date Anal	yzed: 0	1/24/03	
GC Column: ZB-624	ID: 0.32 (mm)	Dilution	Factor:	1.0	
Soil Extract Volume	:(uL)	Soil Alio	uot Vol	ume:	_(uL
CAS NO.	COMPOUND	CONCENTRATION U		Q	
100-41-4 100-42-5 75-25-2 98-82-8 79-34-5 541-73-1 106-46-7 95-50-1 96-12-8 120-82-1 1330-20-7 79-20-9 110-82-7	ChlorobenzeneEthylbenzeneStyreneStyreneIsopropyl Benze1,1,2,2-Tetracl1,3-Dichloroben1,2-Dichloroben1,2-Dibromo-3-01,2-Dibromo-3-01,2,4-TrichlorobenXylene (total)Methyl acetateCyclohexaneMethylcyclohexa	ene		55555555555555555555555555555555555555	1.000克

CLIENT SAMPLE NO.

GW-6MW-4

ab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: Q2849

Matrix: (soil/water) WATER Lab Sample ID: Q2849-14

Sample wt/vol: 5 (g/ml) ML Lab File ID: Q2849-14A59

Level: (low/med) LOW Date Received: 01/21/03

% Moisture: not dec. _____ Date Analyzed: 01/24/03

GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

COMPOUND (ug/L or ug/Kg) UG/L CAS NO. 0 75-71-8-----Dichlorodifluoromethane 5 I U 74-87-3-----Chloromethane 75-01-4-----Vinyl Chloride 74-83-9-----Bromomethane 75-00-3-----Chloroethane 75-69-4-----Trichlorofluoromethane 75-35-4-----1,1-Dichloroethene____ 75-15-0-----Carbon disulfide 76-13-1-----1,1,2-trichloro-1,2,2-triflu R 67-64-1-----Acetone 75-09-2-----Methylene Chloride U 5 156-60-5-----trans-1,2-Dichloroethene U 1634-04-4-----Methyl-tert-butyl ether U 5 75-34-3----1,1-Dichloroethane U 5 156-59-2----cis-1,2-Dichloroethene U 13 78-93-3----2-butanone U 67-66-3------Chloroform U 5 71-55-6-----1,1,1-Trichloroethane U 5 56-23-5-----Carbon Tetrachloride_ U 5 5 5 71-43-2-----Benzene U 107-06-2----1,2-Dichloroethane U 79-01-6-----Trichloroethene U 78-87-5-----1,2-Dichloropropane 5 U 75-27-4-----Bromodichloromethane 5 U 10061-01-5----cis-1,3-Dichloropropene U 108-10-1-----4-Methyl-2-pentanone 13 U 108-88-3-----Toluene 10061-02-6----trans-1,3-Dichloropropene J 0.6 U 5 79-00-5-----1,1,2-Trichloroethane 5 U 127-18-4-----Tetrachloroethene 5 U 591-78-6----2-hexanone 13 U 124-48-1-----Dibromochloromethane U 106-93-4-----1,2-Dibromoethane 5 U FORM I VOA

108-87-2-----Methylcyclohexane

CLIENT SAMPLE NO.

5 | U

GW-6MW-4 Lab Name: COMPUCHEM Method: 8260B Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 02849 Matrix: (soil/water) WATER Lab Sample ID: Q2849-14 Sample wt/vol: 5 (g/ml) ML Lab File ID: Q2849-14A59 Level: (low/med) LOW Date Received: 01/21/03 % Moisture: not dec. Date Analyzed: 01/24/03 GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0 Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 0 108-90-7-----Chlorobenzene 5 U 5 5 5 5 U U U 5 U 5 U

CLIENT SAMPLE NO.

SDG No.: Q2849

GW-6MW-4D

Method: 8260B ab Name: COMPUCHEM

Case No.: SAS No.: Lab Code: LIBRTY

Lab Sample ID: Q2849-15 Matrix: (soil/water) WATER

Lab File ID: Q2849-15A59 Sample wt/vol: (q/ml) ML 5

Date Received: 01/21/03 Level: (low/med) LOW

Date Analyzed: 01/24/03 % Moisture: not dec. _____

Dilution Factor: 1.0 GC Column: ZB-624 ID: 0.32 (mm)

Soil Aliquot Volume: ____(uL Soil Extract Volume: (uL)

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 0 75-71-8-----Dichlorodifluoromethane 5 l U 5 5 5 5 5 5 5 5 5 13 74-87-3-----Chloromethane U 75-01-4-----Vinyl Chloride U 74-83-9-----Bromomethane U 75-00-3-----Chloroethane U 75-69-4-----Trichlorofluoromethane U 75-35-4-----1,1-Dichloroethene U 75-15-0-----Carbon disulfide U 76-13-1-----1,1,2-trichloro-1,2,2-triflu U R U 67-64-1-----Acetone 0.3 5 5 5 5 75-09-2-----Methylene Chloride J 156-60-5-----trans-1,2-Dichloroethene U 1634-04-4-----Methyl-tert-butyl ether U 75-34-3-----1,1-Dichloroethane U 156-59-2----cis-1,2-Dichloroethene U 13 U 78-93-3----2-butanone 67-66-3------Chloroform 5 5 5 5 5 5 U 71-55-6-----1,1,1-Trichloroethane U 56-23-5-----Carbon Tetrachloride U 71-43-2-----Benzene U 107-06-2----1,2-Dichloroethane U 5 79-01-6-----Trichloroethene U 5 78-87-5----1,2-Dichloropropane U 5 75-27-4-----Bromodichloromethane U 5 10061-01-5----cis-1,3-Dichloropropene U 13 108-10-1-----4-Methyl-2-pentanone U 108-88-3-----Toluene 10061-02-6-----trans-1,3-Dichloropropene 0.7 J 5 U 79-00-5-----1,1,2-Trichloroethane 5 U 127-18-4-----Tetrachloroethene 5 U 591-78-6----2-hexanone 13 U 124-48-1-----Dibromochloromethane 5 U 106-93-4----1,2-Dibromoethane 5 U

98-82-8-----Isopropyl Benzene_

541-73-1-----1,3-Dichlorobenzene

106-46-7-----1,4-Dichlorobenzene

95-50-1-----1,2-Dichlorobenzene

108-87-2-----Methylcyclohexane

1330-20-7------Xylene (total)_ 79-20-9------Methyl acetate_

110-82-7-----Cyclohexane

79-34-5-----1,1,2,2-Tetrachloroethane_

96-12-8-----1,2-Dibromo-3-Chloropropane_ 120-82-1----1,2,4-Trichlorobenzene CLIENT SAMPLE NO.

5 U

5 U

5 U

5 U 5 U 5 U

5 U

5 U

0.3 J

GW-6MW-4D Method: 8260B Lab Name: COMPUCHEM Lab Code: LIBRTY Case No.: SDG No.: Q2849 SAS No.: Matrix: (soil/water) WATER Lab Sample ID: Q2849-15 Lab File ID: 5 (g/ml) ML 02849-15A59 Sample wt/vol: Date Received: 01/21/03 Level: (low/med) LOW % Moisture: not dec. Date Analyzed: 01/24/03 GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0 Soil Aliquot Volume: ____(uL Soil Extract Volume: ____(uL) CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L COMPOUND 0 CAS NO. 108-90-7------Chlorobenzene 5 | U 100-41-4-----Ethylbenzene 5 U 5 U 100-42-5-----Styrene 75-25-2-----Bromoform

FORM I VOA

CLIENT SAMPLE NO.

GW-6MW-5D

Method: 8260B ab Name: COMPUCHEM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: Q2849

Matrix: (soil/water) WATER Lab Sample ID: Q2849-7

Sample wt/vol: 5 (g/ml) ML Lab File ID: 02849-7B59

Date Received: 01/16/03 Level: (low/med) LOW

% Moisture: not dec. _____ Date Analyzed: 01/22/03

GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Aliquot Volume: ____(uL Soil Extract Volume: ____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L CAS NO. COMPOUND

0

	CAB NO.	COMPOUND	(dg/H of dg/kg/	00/ L	×	
	75-71-8	-Dichlorodifluorom	ethane	5	U	
l	74-87-3			5		
l		-Vinyl Chloride		5	Ŭ	
l	74-83-9	-Bromomethane		5	Ŭ	
I	75-00-3			5	Ŭ	
I		-Trichlorofluorome	thane	5	บั	
I		-1,1-Dichloroether		5	บั	
١	75-15-0	-Carbon disulfide		5	Ü	
ı	76-13-1	-1,1,2-trichloro-1	2 2-trifly	5	บ	
1	67-64-1	-Agotone	, 2, 2 - 011110	13	Ü	R
ļ		-Methylene Chlorid		0.3	Ĵ	\ -
ļ	150 60 5	trang 1 2 Dighlor	cothono		บ็	
Ì	1624 04 4	-trans-1,2-Dichlor	oethere	5		
I	1634~04-4	-Methyl-tert-butyl	erner	5	ָּט ו	
l	15-34-3	-1,1-Dichloroethan	ie	5	Ü	
ĺ	156-59-2	-cis-1,2-Dichloroe	ernene	5	ū	
	78-93-3			13	U	
l	67-66-3			5	U	
	71-55-6	-1,1,1-Trichloroet	nane	5	U	
ļ		-Carbon Tetrachlor	ride	5	U	
1	71-43-2			5	U	
1	107-06-2	-1,2-Dichloroethar	1e	5	Ŭ	
1		-Trichloroethene_		5	U	
ı	78-87-5	-1,2-Dichloropropa	ine	5	U	
ı		-Bromodichlorometh		5 5 5 5 5 5 5	U	
	10061-01-5	-cis-1,3-Dichlorop	ropene		U	
Ì		-4-Methyl-2-pentar	ione	13		0
I	108-88-3			1	JB	B
	10061-02-6	-trans-1,3-Dichlor	opropene	5	U	
İ	79-00-5	~1,1,2-Trichloroet	hane	5 5 5	U	1.1
ļ	127-18-4	-Tetrachloroethene		5	U	1/1/23
١	591-78-6			13	ับ	41.4
	124-48-1	-Dibromochlorometh	nane	5	U	
Ì	106-93-4	-1,2-Dibromoethane	=	5	U	
Į						

FORM I VOA

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM		Method: 8260B	GW-6MW-5	D
Lab Code: LIBRTY	Case No.:	SAS No.:	SDG No.: Q2849	
Matrix: (soil/water)	WATER	Lab Sample	ID: Q2849-7	
Sample wt/vol:	5 (g/ml) ML	Lab File II	D: Q2849-7B59	
Level: (low/med)	LOW	Date Recei	ved: 01/16/03	
% Moisture: not dec.		Date Analy:	zed: 01/22/03	
GC Column: ZB-624	ID: 0.32 (mm)	Dilution Fa	actor: 1.0	
Soil Extract Volume:	(uL)	Soil Alique	ot Volume:	(uL
CAS NO.	COMPOUND	CONCENTRATION UNI	ITS:	
100-41-4 100-42-5 75-25-2 98-82-8 79-34-5 541-73-1 106-46-7 95-50-1 96-12-8 120-82-1 1330-20-7 79-20-9	ChlorobenzeneEthylbenzeneStyreneStyreneBromoformIsopropyl Benze1,1,2,2-Tetrach1,3-Dichlorober1,4-Dichlorober1,2-Dichlorober1,2-Dibromo-3-C1,2,4-TrichloroXylene (total)Methyl acetateCyclohexaneMethylcyclohexa	ene	55555555555555555555555555555555555555	B 4/1/03

CLIENT SAMPLE NO.

GW-6MW-5S

ab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: Q2849

Matrix: (soil/water) WATER Lab Sample ID: Q2849-8

Sample wt/vol: 5 (g/ml) ML Lab File ID: Q2849-8B59

Level: (low/med) LOW Date Received: 01/16/03

% Moisture: not dec. Date Analyzed: 01/22/03

GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

75-71-8-----Dichlorodifluoromethane 0.3 J 74-87-3-----Chloromethane U 5 5 75-01-4-----Vinyl Chloride U 74-83-9-----Bromomethane U 75-00-3-----Chloroethane 5 U 75-69-4-----Trichlorofluoromethane U 75-35-4-----1,1-Dichloroethene____ U 75-15-0-----Carbon disulfide 5 U 76-13-1-----1,1,2-trichloro-1,2,2-triflu5 U 67-64-1-----Acetone 13 U 75-09-2-----Methylene Chloride 0.2 J 156-60-5-----trans-1,2-Dichloroethene 5 U 1634-04-4-----Methyl-tert-butyl ether 5 U 75-34-3-----1,1-Dichloroethane 5 U 156-59-2-----cis-1,2-Dichloroethene U 78-93-3----2-butanone 13 U 67-66-3-----Chloroform 5 U 71-55-6-----1,1,1-Trichloroethane____ 5 U 56-23-5-----Carbon Tetrachloride 5 U 71-43-2-----Benzene 5 U 107-06-2----1, 2-Dichloroethane 5 U 79-01-6-----Trichloroethene 5 U 78-87-5-----1, 2-Dichloropropane 5 U 75-27-4------Bromodichloromethane 5 U 10061-01-5----cis-1,3-Dichloropropene U 108-10-1-----4-Methyl-2-pentanone 13 U 108-88-3-----Toluene 10061-02-6----trans-1,3-Dichloropropene 79-00-5-----1,1,2-Trichloroethane JB В 1 5 U 5 U 127-18-4-----Tetrachloroethene 5 U 591-78-6----2-hexanone 13 U 124-48-1-----Dibromochloromethane 5 U 106-93-4----1,2-Dibromoethane____ 5 U FORM I VOA

120-82-1----1,2,4-Trichlorobenzene 1330-20-7-----Xylene (total) 79-20-9-------Methyl acetate

110-82-7-----Cyclohexane

108-87-2-----Methylcyclohexane

CLIENT SAMPLE NO.

5 | U

GW-6MW-5S Method: 8260B Lab Name: COMPUCHEM Lab Code: LIBRTY Case No.: SAS No.: SDG No.: Q2849 Matrix: (soil/water) WATER Lab Sample ID: Q2849-8 Sample wt/vol: 5 (g/ml) MLLab File ID: Q2849-8B59 Level: (low/med) LOW Date Received: 01/16/03 % Moisture: not dec. Date Analyzed: 01/22/03 GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0 Soil Extract Volume: ____(uL) Soil Aliquot Volume: (uL CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q 108-90-7------Chlorobenzene
100-41-4-----Ethylbenzene
100-42-5-----Styrene
75-25-2-----Bromoform
98-82-8------Isopropyl Benzene
79-34-5------1,1,2,2-Tetrachloroethane
541-73-1-----1,3-Dichlorobenzene
106-46-7-----1,4-Dichlorobenzene
95-50-1-----1,2-Dichlorobenzene
96-12-8-----1,2-Dibromo-3-Chloropropane
120-82-1-----1,2,4-Trichlorobenzene

FORM I VOA

CLIENT SAMPLE NO.

GW-6MW-6

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: Q2849

Matrix: (soil/water) WATER Lab Sample ID: Q2849-2

Sample wt/vol: 5 (q/ml) ML Lab File ID: 02849-2B59

Level: (low/med) LOW Date Received: 01/15/03

% Moisture: not dec. ____ Date Analyzed: 01/22/03

GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL

CONCENTRATION UNITS:

CAS NO. (ug/L or ug/Kg) UG/L COMPOUND 0 75-71-8-----Dichlorodifluoromethane U 74-87-3-----Chloromethane 5 U 75-01-4-----Vinyl Chloride 5 U 74-83-9-----Bromomethane 5 U 75-00-3-----Chloroethane 5 U 75-69-4-----Trichlorofluoromethane 5 U 75-35-4----1,1-Dichloroethene 5 U 75-15-0------Carbon disulfide 76-13-1-----1,1,2-trichloro-1,2,2-triflu 5 ľŪ 5 U 67-64-1-----Acetone R 13 U 75-09-2-----Methylene Chloride 5 U 156-60-5-----trans-1,2-Dichloroethene 5 U 1634-04-4-----Methyl-tert-butyl ether 5 U 75-34-3-----1,1-Dichloroethane 5 U 156-59-2----cis-1,2-Dichloroethene 5 U 78-93-3----2-butanone 13 U 67-66-3-----Chloroform 5 U 71-55-6-----1,1,1-Trichloroethane_____ 56-23-5------Carbon Tetrachloride_____ 5 5 U U 71-43-2-----Benzene 5 U 107-06-2----1, 2-Dichloroethane 5 U 79-01-6-----Trichloroethene U 5 U 5 U 78-87-5----1, 2-Dichloropropane 75-27-4-----Bromodichloromethane 10061-01-5----cis-1,3-Dichloropropene_ 5 | U 108-10-1----4-Methyl-2-pentanone 13 U 108-88-3-----Toluene ß 1 JB 10061-02-6----trans-1,3-Dichloropropene 5 U 79-00-5-----1,1,2-Trichloroethane 5 U 127-18-4----Tetrachloroethene_ 591-78-6----2-hexanone 13 U 124-48-1-----Dibromochloromethane 5 U 106-93-4-----1,2-Dibromoethane 5 U FORM I VOA

32

CLIENT SAMPLE NO.

Lab Name:	COMPUCHEM		Method: 8260	3	GW-	6MW-6	
Lab Code:	LIBRTY	Case No.:	SAS No.:	SDG 1	۷o.: ۵	2849	
Matrix: (soil/water)	WATER	Lab Sa	ample ID:	Q2849	9-2	
Sample wt	/vol:	5 (g/ml) ML	Lab F	ile ID:	Q2849	-2B59	
Level:	(low/med)	LOW	Date I	Received:	01/15	5/03	
Moistur	e: not dec.		Date 1	Analyzed:	01/22	2/03	
GC Column	: ZB-624	ID: 0.32 (mm)	Dilut	ion Facto	r: 1.0)	
Soil Extr	act Volume:	(uL)	Soil A	Aliquot V	olume		(uL
CA	S NO.	COMPOUND	CONCENTRATION (ug/L or ug/			Q	
10 10 75 98 79 54 10 95 96 12 13	0-41-4 0-42-525-282-834-5 1-73-1 6-46-750-112-8 0-82-1 30-20-720-9	ChlorobenzeneEthylbenzeneStyreneBromoformIsopropyl Ben1,1,2,2-Tetra1,4-Dichlorob1,2-Dichlorob1,2-Dibromo-31,2,4-TrichloXylene (totalMethyl acetatCyclohexaneMethylcyclohe	zene chloroethane enzene enzene enzene -Chloropropane robenzene		55555555555555555555555555555555555555	ממממממממממממ	3

FORM I VOA

CLIENT SAMPLE NO.

GW-6MW-7

Method: 8260B ab Name: COMPUCHEM Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 02849 Lab Sample ID: Q2849-9 Matrix: (soil/water) WATER Sample wt/vol: 5 (g/ml) ML Lab File ID: 02849-9B59 Date Received: 01/16/03 Level: (low/med) LOW % Moisture: not dec. Date Analyzed: 01/22/03 GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Aliquot Volume: (uL Soil Extract Volume: ____(uL)

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 0 75-71-8-----Dichlorodifluoromethane 74-87-3-----Chloromethane 75-01-4-----Vinyl Chloride 74-83-9-----Bromomethane 75-00-3-----Chloroethane 75-69-4-----Trichlorofluoromethane 75-35-4-----1,1-Dichloroethene 75-15-0-----Carbon disulfide 76-13-1-----1,1,2-trichloro-1,2,2-triflu 67-64-1-----Acetone 13 U 75-09-2-----Methylene Chloride 156-60-5-----trans-1,2-Dichloroethene 1634-04-4-----Methyl-tert-butyl ether___ 75-34-3-----1,1-Dichloroethane 156-59-2-----cis-1,2-Dichloroethene 78-93-3----2-butanone 13 U 67-66-3-----Chloroform 71-55-6-----1,1,1-Trichloroethane 56-23-5-----Carbon Tetrachloride___ 71-43-2-----Benzene 107-06-2----1,2-Dichloroethane_ 79-01-6----Trichloroethene 78-87-5-----1,2-Dichloropropane 75-27-4-----Bromodichloromethane 10061-01-5----cis-1,3-Dichloropropene 108-10-1-----4-Methyl-2-pentanone 13 U 108-88-3-----Toluene 1 JB 5 U 5 U B 10061-02-6----trans-1,3-Dichloropropene 79-00-5-----1,1,2-Trichloroethane____ 127-18-4-----Tetrachloroethene 11 591-78-6----2-hexanone 13 U 124-48-1-----Dibromochloromethane 5 U 5 U 106-93-4-----1,2-Dibromoethane FORM I VOA

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM		Method: 8260B	GW-	-6MW-7	
Lab Code: LIBRTY	Case No.:	SAS No.:	SDG No.:	Q2849	
Matrix: (soil/water)	WATER	Lab Samp	le ID: Q284	9-9	
Sample wt/vol:	5 (g/ml) ML	Lab File	ID: Q284	9-9B59	
Level: (low/med)	LOW	Date Rec	eived: 01/1	6/03	
% Moisture: not dec.	·	Date Ana	lyzed: 01/2	2/03	
GC Column: ZB-624	ID: 0.32 (mm)	Dilution	Factor: 1.0	0	
Soil Extract Volume:	(uL)	Soil Ali	quot Volume	:(u	L
CAS NO.	COMPOUND	CONCENTRATION (ug/L or ug/Kg		Q	
100-41-4 100-42-5 75-25-2 98-82-8 79-34-5 541-73-1 106-46-7 95-50-1 96-12-8 120-82-1 79-20-9 110-82-7	Chlorobenzene Ethylbenzene Styrene Isopropyl Benze 1,1,2,2-Tetrach 1,3-Dichlorober 1,2-Dichlorober 1,2-Dichlorober 1,2-Dibromo-3-0 1,2,4-Trichloro Xylene (total) Methyl acetate Cyclohexane	ene	ភភភភភភភ ភភភភភភភភភភភភភភភភភភភភភភភភភភភភភ	U U U U U U U U U U U U U U U U U U U	

CLIENT SAMPLE NO.

GW-6MW-8 Method: 8260B ab Name: COMPUCHEM SDG No.: Q2849 Case No.: SAS No.: Lab Code: LIBRTY Lab Sample ID: Q2849-13 Matrix: (soil/water) WATER Q2849-13A59 Lab File ID: (q/ml) ML Sample wt/vol: 5 Date Received: 01/21/03 LOW Level: (low/med) Date Analyzed: 01/24/03 % Moisture: not dec. Dilution Factor: 1.0 GC Column: ZB-624 ID: 0.32 (mm) Soil Aliquot Volume: ____(uL Soil Extract Volume: ____(uL) CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L Q COMPOUND CAS NO. 5 | U 75-71-8-----Dichlorodifluoromethane 74-87-3-----Chloromethane 75-01-4-----Vinyl Chloride 74-83-9-----Bromomethane 75-00-3-----Chloroethane 75-69-4----Trichlorofluoromethane 75-35-4-----1,1-Dichloroethene____ 75-15-0-----Carbon disulfide $76-13-1-----1,1,2-trichloro-\overline{1,2,2-triflu}$ 13 U 67-64-1------Acetone 0.3 J 75-09-2-----Methylene Chloride 5 5 5 156-60-5-----trans-1,2-Dichloroethene U U 1634-04-4-----Methyl-tert-butyl ether U 75-34-3-----1,1-Dichloroethane 156-59-2----cis-1,2-Dichloroethene U 13 U 78-93-3----2-butanone 5 U 67-66-3-----Chloroform 5 71-55-6-----1,1,1-Trichloroethane U 5 U 56-23-5-----Carbon Tetrachloride 5 71-43-2-----Benzene U 5 U 107-06-2----1,2-Dichloroethane 0.5 79-01-6-----Trichloroethene 5 78-87-5-----1,2-Dichloropropane U 5 U 75-27-4-----Bromodichloromethane 5 U 10061-01-5----cis-1,3-Dichloropropene_ 108-10-1----4-Methyl-2-pentanone_ 13 U b 108-88-3-----Toluene 10061-02-6----trans-1,3-Dichloropropene 0.7 IJ 5 | U 5 U 79-00-5----1,1,2-Trichloroethane____ 127-18-4-----Tetrachloroethene U 13 U 591-78-6----2-hexanone 124-48-1-----Dibromochloromethane 5 U 106-93-4-----1,2-Dibromoethane 5 | U

FORM I VOA

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM	I	Method: 8260B	GW-6MW-8	
Lab Code: LIBRTY	Case No.:	SAS No.: SDG	No.: Q2849	 1
Matrix: (soil/water) WATER	Lab Sample ID		
Sample wt/vol:	5 (g/ml) ML			
Level: (low/med)	LOW	Date Received		
Moisture: not dec		Date Analyzed		
GC Column: ZB-624	ID: 0.32 (mm)			
Soil Extract Volume	:(uL)			(uL
CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/I	•	
100-41-4 100-42-5 75-25-2 98-82-8 79-34-5 541-73-1 106-46-7 95-50-1 96-12-8 120-82-1 1330-20-7	ChlorobenzeneEthylbenzeneStyreneBromoformIsopropyl Benze1,1,2,2-Tetrach1,3-Dichloroben1,2-Dichloroben1,2-Dibromo-3-C1,2,4-TrichloroXylene (total)Methyl acetateCyclohexaneMethylcyclohexa	ene nloroethane nzene nzene nzene nzene nzene chloropropane benzene	55555555555555555555555555555555555555	

GW-MW-115

Method: 8260B Lab Name: COMPUCHEM

_ab Code: LIBRTY Case No.: SAS No.: SDG No.: Q2849

Matrix: (soil/water) WATER Lab Sample ID: Q2849-11

(g/ml) ML Sample wt/vol: 5 Lab File ID: Q2849-11A59

(low/med) Level: LOW Date Received: 01/21/03

% Moisture: not dec. Date Analyzed: 01/24/03

GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____ (uL) Soil Aliquot Volume: (uL

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 0 75-71-8-----Dichlorodifluoromethane 5 | U 74-87-3-----Chloromethane 75-01-4-----Vinyl Chloride 74-83-9-----Bromomethane 75-00-3-----Chloroethane 75-69-4-----Trichlorofluoromethane 75-35-4-----1,1-Dichloroethene_ 75-15-0-----Carbon disulfide 76-13-1----1,1,2-trichloro-1,2,2-triflu 67-64-1-----Acetone R 13 U 5 5 5 5 5 5 5 5 5 5 5 75-09-2-----Methylene Chloride 156-60-5-----trans-1,2-Dichloroethene 1634-04-4-----Methyl-tert-butyl ether 75-34-3-----1,1-Dichloroethane 156-59-2----cis-1,2-Dichloroethene_ 78-93-3----2-butanone 13 U 67-66-3-----Chloroform 71-55-6-----1,1,1-Trichloroethane 56-23-5-----Carbon Tetrachloride 71-43-2----Benzene 107-06-2-----1,2-Dichloroethane 79-01-6-----Trichloroethene 78-87-5-----1,2-Dichloropropane 75-27-4-----Bromodichloromethane 10061-01-5----cis-1,3-Dichloropropene 108-10-1----4-Methyl-2-pentanone 13 U 108-88-3-----Toluene 10061-02-6----trans-1,3-Dichloropropene ტ 0.7 J 5 U 5 U 5 U 79-00-5-----1,1,2-Trichloroethane 127-18-4-----Tetrachloroethene

FORM I VOA

591-78-6----2-hexanone

124-48-1-----Dibromochloromethane 106-93-4-----1,2-Dibromoethane

13 U

5 U 5 U

CLIENT SAMPLE NO.

GW-MW-115 Lab Name: COMPUCHEM Method: 8260B Lab Code: LIBRTY Case No.: SAS No.: SDG No.: Q2849 Matrix: (soil/water) WATER Lab Sample ID: Q2849-11 (q/ml) ML Sample wt/vol: 5 Lab File ID: Q2849-11A59 (low/med) LOW Level: Date Received: 01/21/03

% Moisture: not dec. ____ Date Analyzed: 01/24/03

GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 0 108-90-7-----Chlorobenzene 100-41-4-----Ethylbenzene 100-42-5----Styrene 75-25-2-----Bromoform 98-82-8-----Isopropyl Benzene
79-34-5-----1,1,2,2-Tetrachloroethane
541-73-1----1,3-Dichlorobenzene 106-46-7-----1,4-Dichlorobenzene 95-50-1-----1,2-Dichlorobenzene 96-12-8-----1,2-Dibromo-3-Chloropropane 120-82-1-----1,2,4-Trichlorobenzene 1330-20-7------Xylene (total) 79-20-9------Methyl acetate 110-82-7-----Cyclohexane 108-87-2-----Methylcyclohexane U

FORM I VOA

CLIENT SAMPLE NO.

GW-MW-117

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: Q2849

Matrix: (soil/water) WATER Lab Sample ID: Q2849-3

Sample wt/vol: 5 (g/ml) ML Lab File ID: Q2849-3B59

Level: (low/med) LOW Date Received: 01/15/03

% Moisture: not dec. _____ Date Analyzed: 01/22/03

GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL

CONCENTRATION UNITS:
AS NO. COMPOUND (ug/L or ug/kg) UG/L

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

75-71-8-----Dichlorodifluoromethane 74-87-3-----Chloromethane 75-01-4-----Vinyl Chloride 74-83-9-----Bromomethane 75-00-3-----Chloroethane 75-69-4-----Trichlorofluoromethane 75-35-4-----1,1-Dichloroethene 75-15-0-----Carbon disulfide $76-13-1-----1, 1, 2-trichloro-\overline{1, 2, 2-triflu}$ 67-64-1-----Acetone 32 75-09-2-----Methylene Chloride Ū 5 5 5 5 156-60-5-----trans-1,2-Dichloroethene U U U 156-59-2-----cis-1, 2-Dichloroethene 22 78-93-3----2-butanone 13 ប៊ 67-66-3-----Chloroform U 555551 71-55-6-----1,1,1-Trichloroethane Ū 56-23-5-----Carbon Tetrachloride U 71-43-2----Benzene U 107-06-2----1,2-Dichloroethane U 79-01-6-----Trichloroethene J 78-87-5-----1,2-Dichloropropane 5 5 5 U 75-27-4-----Bromodichloromethane U 10061-01-5----cis-1,3-Dichloropropene U 108-10-1-----4-Methyl-2-pentanone 13 U 108-88-3----Toluene 1 JB B 10061-02-6----trans-1,3-Dichloropropene 5 | U 79-00-5-----1,1,2-Trichloroethane 5 U 127-18-4-----Tetrachloroethene 2 J 591-78-6----2-hexanone U 13 124-48-1-----Dibromochloromethane Ū 5 106-93-4-----1,2-Dibromoethane 5 U

FORM I VOA

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM		Method: 8260E	3	GW	-MW-117	
Lab Code: LIBRTY	Case No.:	SAS No.:	'	No.: (Q2849	 !
Matrix: (soil/water)	WATER	Lab Sa	umple ID:	Q2849	9-3	
Sample wt/vol:	5 (g/ml) ML	Lab Fi	le ID:	Q2849	9-3B59	
Level: (low/med)	LOW	Date R	eceived:	01/1	5/03	
Moisture: not dec.		Date A	nalyzed:	01/22	2/03	
GC Column: ZB-624	ID: 0.32 (mm)	Diluti	on Facto	r: 1.0	o	
Soil Extract Volume:	(uL)	Soil A	liquot V	olume:	: <u></u>	(uL
CAS NO.	COMPOUND	CONCENTRATIO	N UNITS: Kg) UG/L		Q	
100-41-4 100-42-5 75-25-2 98-82-8 79-34-5 541-73-1 106-46-7 95-50-1 96-12-8 120-82-1 1330-20-7 79-20-9	ChlorobenzeneEthylbenzeneStyreneStyreneBromoformIsopropyl Benze1,1,2,2-Tetrach1,3-Dichloroben1,4-Dichloroben1,2-Dibromo-3-C1,2-Dibromo-3-C1,2,4-TrichloroXylene (total)Methyl acetateCyclohexaneMethylcyclohexa	ene		5 5 130	U U U U U U U U U U U U U U U U U U U	

CLIENT SAMPLE NO.

GW-MW-118

Tab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.:

SDG No.: Q2849

Matrix: (soil/water) WATER

Lab Sample ID: Q2849-4

Sample wt/vol: 5 (g/ml) ML

Lab File ID: Q2849-4B59

Level: (low/med) LOW

Date Received: 01/15/03

% Moisture: not dec.

Date Analyzed: 01/22/03

GC Column: ZB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: ____(uL

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO. COMPOUND

CAS NO.	COMPOUND (ug/L or ug	/kg) UG/L	Q	
75-71-8	Dichlorodifluoromethane	-	U	
74-87-3	Chloromethane	.	Ü	
75-01-4	Vinyl Chloride	.	บี	
74-83-9	Bromomethane	· į	ปี	1
75-00-3	Chloroethane		ปี	
75-69-4	Trichlorofluoromethane		บี	
75-35-4	1,1-Dichloroethene	·	บี	
75-15-0	Carbon disulfide	.	บี	
76-13-1	1,1,2-trichloro-1,2,2-triflu	-	Ü	
67-64-1	Acetone	13		R
75-09-2	Methylene Chloride	1	Ü	-
156-60-5	trans-1,2-Dichloroethene	5 5 6 6	ίű	
1634-04-4	Methyl-tert-butyl ether		i i	
75-34-3	1,1-Dichloroethane	Ē	្រីប្រ	
156-59-2	cis-1,2-Dichloroethene	Ì	ü	
78-93-3	2-butanone	13	Ü	l
	Chloroform	1	ปี	
	1,1,1-Trichloroethane	555555555555555555555555555555555555555	บ็	
56-23-5	Carbon Tetrachloride		Ü	1
71-43-2	Benzene		Ü	
107-06-2	1,2-Dichloroethane	1	Ü	
79-01-6	Trichloroethene	1	Ü	
78-87-5	1, 2-Dichloropropane		ป็	
75-27-4	Bromodichloromethane	1	บ็	
10061-01-5	cis-1,3-Dichloropropene]	Ü	ì
108-10-1	4-Methyl-2-pentanone	1 2	ปี	l
108-88-3	Toluene	1		6
10061-02-6	trans-1,3-Dichloropropene	1	บ็	•
79-00-5	1,1,2-Trichloroethane]	Ü	
127-18-4	Tetrachloroethene	55	Ü	112
591-78-6	2-hexanone	13	ט	+ 10, ,
124-48-1	Dibromochloromethane	13	บี	7
106-93-4	1, 2-Dibromoethane	5	Ü	
		2	١٠	
····	FORM I VOA	I	.	1

CLIENT SAMPLE NO.

GW-MW-118 Lab Name: COMPUCHEM Method: 8260B Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 02849 Matrix: (soil/water) WATER Lab Sample ID: Q2849-4 Sample wt/vol: 5 (g/ml) ML Lab File ID: Q2849-4B59 Level: (low/med) LOW Date Received: 01/15/03 % Moisture: not dec. Date Analyzed: 01/22/03 GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0 Soil Extract Volume: (uL) Soil Aliquot Volume: ____(uL CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 0 108-90-7-----Chlorobenzene 5 | U 100-41-4------Ethylbenzene_ 100-42-5------Styrene_ 75-25-2------Bromoform_ 555555555555555 U U 98-82-8-----Isopropyl Benzene
79-34-5-----1,1,2,2-Tetrachloroethane
541-73-1-----1,3-Dichlorobenzene U U U U 106-46-7-----1,4-Dichlorobenzene U 95-50-1----1,2-Dichlorobenzene U 96-12-8-----1,2-Dibromo-3-Chloropropane U U U U U 108-87-2-----Methylcyclohexane

FORM I VOA

U

CLIENT SAMPLE NO.

GW-MW-118D

Method: 8260B ab Name: COMPUCHEM SDG No.: 02849 SAS No.: Lab Code: LIBRTY Case No.:

Lab Sample ID: Q2849-5 Matrix: (soil/water) WATER

Lab File ID: Q2849-5B59 5 (q/ml) ML Sample wt/vol:

Date Received: 01/15/03 Level: (low/med) LOW

% Moisture: not dec. Date Analyzed: 01/22/03

ID: 0.32 (mm) Dilution Factor: 1.0 GC Column: ZB-624

Soil Aliquot Volume: (uL Soil Extract Volume: ____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L CAS NO. COMPOUND 75-71-8-----Dichlorodifluoromethane 74-87-3-----Chloromethane 75-01-4------Vinyl Chloride 74-83-9-----Bromomethane 75-00-3-----Chloroethane 75-15-0-----Carbon disulfide 76-13-1-----1,1,2-trichloro-1,2,2-triflu 13 U 67-64-1-----Acetone 75-09-2-----Methylene Chloride 5 | U 156-60-5-----trans-1,2-Dichloroethene 5 U 1634-04-4-----Methyl-tert-butyl ether 5 U 75-34-3-----1,1-Dichloroethane 156-59-2----cis-1,2-Dichloroethene 5 U 5 U 78-93-3-----2-butanone 13 U 5 U 5 U 5 U 67-66-3-----Chloroform 71-55-6-----1,1,1-Trichloroethane_ 56-23-5-----Carbon Tetrachloride_ 71-43-2-----Benzene 5 U 107-06-2----1,2-Dichloroethane 5 | U 5 U 79-01-6-----Trichloroethene 78-87-5-----1,2-Dichloropropane 5 | U 5 5 75-27-4-----Bromodichloromethane U 10061-01-5----cis-1,3-Dichloropropene U 108-10-1-----4-Methyl-2-pentanone 13 U B 108-88-3-----Toluene 10061-02-6----trans-1,3-Dichloropropene 0.8 JB 5 | U 79-00-5-----1,1,2-Trichloroethane_ 5 U

FORM I VOA

127-18-4-----Tetrachloroethene

106-93-4----1,2-Dibromoethane

124-48-1-----Dibromochloromethane

591-78-6----2-hexanone

U 5

13 U

5 | U

5 | U

CLIENT SAMPLE NO.

GW-MW-118D Lab Name: COMPUCHEM Method: 8260B Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 02849 Matrix: (soil/water) WATER Lab Sample ID: 02849-5 Sample wt/vol: 5 (g/ml) ML Lab File ID: Q2849-5B59 Level: (low/med) LOW Date Received: 01/15/03 % Moisture: not dec. ____ Date Analyzed: 01/22/03 GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0 Soil Extract Volume: (uL) Soil Aliquot Volume: ____(uL CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 0 106-46-7-----1,4-Dichlorobenzene
95-50-1-----1,2-Dichlorobenzene
96-12-8-----1,2-Dibromo-3-Chloropropane
120-82-1-----1,2,4-Trichlorobenzene
1330-20-7------Xylene (total)
79-20-9-------Methyl acetate 110-82-7-----Cyclohexane 5 U

108-87-2-----Methylcyclohexane

U

TRIPBLANK1-14 Method: 8260B

Tab Name: COMPUCHEM SDG No.: Q2849 Case No.: SAS No.: _ab Code: LIBRTY

Matrix: (soil/water) WATER Lab Sample ID: Q2849-6

Lab File ID: Q2849-6B59 (g/ml) ML Sample wt/vol:

Date Received: 01/15/03 Level: (low/med) LOW

Date Analyzed: 01/22/03 % Moisture: not dec.

Dilution Factor: 1.0 ID: 0.32 (mm) GC Column: ZB-624

Soil Aliquot Volume: (uL Soil Extract Volume: ____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Q COMPOUND CAS NO. 5 U 5 U 5 U 5 U 75-71-8-----Dichlorodifluoromethane 74-87-3-----Chloromethane 75-01-4-----Vinyl Chloride 74-83-9-----Bromomethane 5 75-00-3-----Chloroethane U 75-69-4-----Trichlorofluoromethane 5 U 75-35-4-----1,1-Dichloroethene 5 U 75-15-0-----Carbon disulfide 5 U 76-13-1-----1,1,2-trichloro-1,2,2-triflu 5 U 67-64-1------Acetone_ 75-09-2-----Methylene Chloride_ 13 U U

5 | U 5 U 5 U 13 U 5 U 67-66-3-----Chloroform 71-55-6-----1,1,1-Trichloroethane_ 55555 56-23-5-----Carbon Tetrachloride U 71-43-2----Benzene U 107-06-2----1,2-Dichloroethane U

79-01-6----Trichloroethene 78-87-5----1,2-Dichloropropane 75-27-4-----Bromodichloromethane 10061-01-5----cis-1,3-Dichloropropene_

108-10-1-----4-Methyl-2-pentanone 108-88-3-----Toluene

156-60-5-----trans-1,2-Dichloroethene

10061-02-6----trans-1,3-Dichloropropene 79-00-5-----1,1,2-Trichloroethane

127-18-4-----Tetrachloroethene 591-78-6----2-hexanone

124-48-1-----Dibromochloromethane 106-93-4-----1,2-Dibromoethane

FORM I VOA

R

5 U

U U

U

U

13 U

5 | U 5 U

13 U

5 U 5 | U

1 JB

CLIENT SAMPLE NO.

Lab Na	ame: COMPUCHEM		Method: 8260B		TRIPBLANK1-1	L 4
Lab Co	ode: LIBRTY	Case No.:	SAS No.:	SDG	No.: Q2849	!
Matriz	k: (soil/water)	WATER	Lab Sam	ple ID:	Q2849-6	
Sample	e wt/vol:	5 (g/ml) ML	Lab File	⊇ ID:	Q2849-6B59	
Level	: (low/med)	LOW	Date Red	ceived:	01/15/03	
% Mois	sture: not dec.		Date Ana	alyzed:	01/22/03	
GC Col	lumn: ZB-624	ID: 0.32 (mm)	Dilution	Facto	r: 1.0	
Soil E	Extract Volume:	(uL)	Soil Ali	quot V	olume:	(uL
ı	CAS NO.	COMPOUND	CONCENTRATION (ug/L or ug/Ko	UNITS: j) UG/L	Q	
	100-42-5 75-25-2 98-82-8 79-34-5 541-73-1 106-46-7 95-50-1 96-12-8 120-82-1 1330-20-7 110-82-7	ChlorobenzeneEthylbenzeneStyreneStyreneIsopropyl Benze1,1,2,2-Tetrach1,3-Dichloroben1,2-Dichloroben1,2-Dibromo-3-C1,2,4-TrichloroXylene (total)Methyl acetateCyclohexane	ne loroethane lzene zene zene hloropropane benzene		55555555555555555555555555555555555555	

TRIPBLANK1-15

Method: 8260B Tab Name: COMPUCHEM SDG No.: Q2849 SAS No.: Lab Code: LIBRTY Case No.: Lab Sample ID: Q2849-10 Matrix: (soil/water) WATER Lab File ID: Q2849-10B59 (q/ml) ML Sample wt/vol: Date Received: 01/16/03 LOW Level: (low/med) Date Analyzed: 01/22/03 % Moisture: not dec. Dilution Factor: 1.0 GC Column: ZB-624 ID: 0.32 (mm) Soil Aliquot Volume: (uL Soil Extract Volume: __(uL) CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L 0 COMPOUND CAS NO. 75-71-8-----Dichlorodifluoromethane__ ΙU 5 U 74-87-3-----Chloromethane 5 U 75-01-4------Vinyl Chloride 5 ΙU 74-83-9-----Bromomethane 75-00-3-----Chloroethane 5 U 75-69-4----Trichlorofluoromethane 5 U 5 U 75-35-4-----1,1-Dichloroethene_ 5 U 75-15-0-----Carbon disulfide 76-13-1----1,1,2-trichloro-1,2,2-triflu 5 | U 13 U 67-64-1------Acetone 75-09-2-----Methylene Chloride 156-60-5-----trans-1,2-Dichloroethene 5 U 5 | U 5 U 5 U 1634-04-4-----Methyl-tert-butyl ether 75-34-3-----1,1-Dichloroethane 5 U 156-59-2-----cis-1,2-Dichloroethene 13 U 78-93-3----2-butanone 67-66-3-----Chloroform 71-55-6-----1,1,1-Trichloroethane 56-23-5------Carbon Tetrachloride 71-43-2----Benzene 107-06-2-----1,2-Dichloroethane 79-01-6-----Trichloroethene 78-87-5-----1,2-Dichloropropane 75-27-4----Bromodichloromethane 10061-01-5----cis-1,3-Dichloropropene 108-10-1----4-Methyl-2-pentanone 13 U 0.9 JB 108-88-3-----Toluene 10061-02-6----trans-1,3-Dichloropropene 5 | U 79-00-5-----1,1,2-Trichloroethane 5 | U 127-18-4-----Tetrachloroethene U 591-78-6----2-hexanone 13 U 124-48-1-----Dibromochloromethane 5 lυ

FORM I VOA

106-93-4-----1,2-Dibromoethane

U

CLIENT SAMPLE NO.

TRIPBLANK1-15 Lab Name: COMPUCHEM Method: 8260B Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 02849 Matrix: (soil/water) WATER Lab Sample ID: Q2849-10 Sample wt/vol: 5 (g/ml) ML Lab File ID: Q2849-10B59 Level: (low/med) LOW Date Received: 01/16/03 % Moisture: not dec. Date Analyzed: 01/22/03 GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0 Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 0 108-90-7-----Chlorobenzene U 100-41-4----Ethylbenzene 5 U 5 U 5 U 5 U 5 U 5 U 0.3 J 5 U 5 U 5 U 5 U 5 U 5 U

FORM I VOA

5 IJ

CLIENT SAMPLE NO.

GW-6MW-3D

ab Name: COMPUCHEM	Contract	: 8260B	\
Lab Code: LIBRTY Case N	SAS No.:	SDG 1	No.: Q2849
Matrix: (soil/water) WATER		Lab Sample ID:	Q2849-1
Sample wt/vol: 5	(g/ml) ML	Lab File ID:	Q2849-1B59
Level: (low/med) LOW		Date Received:	01/15/03
% Moisture: not dec.		Date Analyzed:	01/22/03
GC Column: ZB-624 ID: 0	.32 (mm)	Dilution Facto	r: 1.0
Soil Extract Volume:	(uL)	Soil Aliquot V	olume:(u
	CONCE	NTRATION UNITS.	

Number TICs found: 2

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

41,63

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	LABORATORY ARTIFACT	======= - 13.48	27.30	====: JB-
2. —	LABORATORY ARTIFACT	14.86	14.32	JB —
3				
5.				
6.				
7 . 8 .				
9.				
10.				
12.				
13. 14.				ļ ——
				
				ļ
17.				
エノ・				
21.				
ZZ.				
23				
45.				
40.				
27. 28.				
49.				
30.				

Lab Name: COMPUCHEM

CLIENT SAMPLE NO.

GW-6MW-3S

Lab	Code:	LIBRTY	Case No.:	SAS No.:	SDG No.: 02849

Contract: 8260B

Matrix: (soil/water) WATER Lab Sample ID: Q2849-12

Sample wt/vol: 5 (g/ml) MLLab File ID: Q2849-12A59

Level: (low/med) LOW Date Received: 01/21/03

% Moisture: not dec. Date Analyzed: 01/24/03

GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL

CONCENTRATION UNITS: Number TICs found: 3

4/16 (ug/L or ug/Kg) ug/L

	<u> </u>			
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 2.	LABORATORY ARTIFACT LABORATORY ARTIFACT	13.47 14.86	20.80 30.17	J JB
3. 4. 5	LABORATORY ARTIFACT	16.17	23.16	J
6 7.				
8. 9. 10.				
12				
13. 14. 15. 16.				
18				
20				
23.				
26.				
27. 28. 29.				
30.				

CLIENT SAMPLE NO.

GW-6MW-4	
----------	--

ab Name: COMPUCHEM		Contract: 8260B	i
Lab Code: LIBRTY	Case No.:	SAS No.: SDG	No.: Q2849
Matrix: (soil/water)	WATER	Lab Sample ID:	Q2849-14
Sample wt/vol:	5 (g/ml) ML	Lab File ID:	Q2849-14A59
Level: (low/med)	LOW	Date Received:	01/21/03

GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0

% Moisture: not dec.

Number TICs found: 1

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

Date Analyzed: 01/24/03

		-1		٠,
CAS NUMBER	COMPOUND NAME	RT = =======	EST. CONC.	Q
1	ABORATORY ARTIFACT	14 85	6.56	: -JD
2			3.33	
3				
**·				
·				
o		_		
7				
8		_ 		
0.				
1		_ 		
2		_		
3				
. 7 .				
.J. I				
.6.				
. / .		_		
.0.				
9		_		
20.		— 		
12.		-		
22.		- 		
4		-		
5.		_		
(6.				
27.				
38.				
9.				
30.		_		
		_		

CLIENT SAMPLE NO.

GW-6MW-4D

Lab Name: COMPUCHEM	,	Contract: 8260B	
Lab Code: LIBRTY	Case No.:	SAS No.: SDG	No.: Q2849
Matrix: (soil/water)	WATER	Lab Sample ID:	Q2849-15
Sample wt/vol:	5 (g/ml) ML	Lab File ID:	Q2849-15A59
Level: (low/med)	LOW	Date Received:	01/21/03
% Moisture: not dec.		Date Analyzed:	01/24/03
GC Column: ZB-624	ID: 0.32 (mm)	Dilution Facto	or: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL

Number TICs found: 1

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

4/1/2

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 2	LABORATORY ARTIFACT	14.85	10.93	JB
2 · 3 · 4 ·				
5 . 6 .				
7. 8.				
9. 10. 11.				
13.				
15.				
16. 17. 18.				
20.				
22.				
24.				
26. 27.				
29.				
30.				

CLIENT SAMPLE NO.

GW-6MW-5D

b Name: COMPUCHEM	(Contract: 8260B	
Lab Code: LIBRTY (Case No.:	SAS No.: SDG	No.: Q2849
Matrix: (soil/water)	WATER	Lab Sample ID:	Q2849-7
Sample wt/vol:	5 (g/ml) ML	Lab File ID:	Q2849-7B59
Level: (low/med)	LOW	Date Received	: 01/16/03
% Moisture: not dec.		Date Analyzed	: 01/22/03
GC Column: ZB-624	ID: 0.32 (mm)	Dilution Facto	or: 1.0
Soil Extract Volume:	(uL)	Soil Aliquot	Volume:(u

Number TICs found: 2

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

4/0/2

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	LABORATORY ARTIFACT	13.48 	21.62	
2. 3	LABORATORY ARTIFACT	14.00		
5.				
7.				
9.				
10				
12.				
14. 15.				
16. 17.				
10.				
19. 20.				
21.				
23.				
25. 26.				
27. 28.				
29.				

FORM I VOA-TIC

CLIENT SAMPLE NO.

GW-6MW-5S

Lab Name: COMPUCHEM		Contract: 8260B	
Lab Code: LIBRTY	Case No.:	SAS No.: SDG	No.: Q2849
Matrix: (soil/water)	WATER	Lab Sample ID:	Q2849-8
Sample wt/vol:	5 (g/ml) ML	Lab File ID:	Q2849-8B59
Level: (low/med)	FOM	Date Received:	01/16/03
% Moisture: not dec.		Date Analyzed:	01/22/03

GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

4/163

				יוד
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	LABORATORY ARTIFACT	13.48	<u></u> 24.57	
2.	LABORATORY ARTIFACT	14 86	13.42	JB-
3				
4				
5				
6				
g·	_	.		
8.		.		
10		— ——— .	 _	
11.		— — — — .		
12				
13.				
		 -		
15.				
10.		_		
⊥/.				
19.	_			
20	_			
22		.		
23.		.		
24.		— <u>——</u> _ _		
25.				
26.		— .		
21.		— — — — -		
20,		- -		
49.				
30.		— -		
		- -	-· - 	
		— I ———— I <u>—</u>		

CLIENT SAMPLE NO.

G	W-6MW-6	
No.:	Q2849	

ab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY Case No.:

SAS No.:

SDG

Matrix: (soil/water) WATER

Lab Sample ID: Q2849-2

Sample wt/vol:

5 (g/ml) ML

Lab File ID: Q2849-2B59

Level: (low/med) LOW

Date Received: 01/15/03

% Moisture: not dec. _____

Date Analyzed: 01/22/03

GC Column: ZB-624 ID: 0.32 (mm)

Number TICs found: 2

Dilution Factor: 1.0

Soil Aliquot Volume: ____(uL

Soil Extract Volume: ____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q =====
	LABORATORY ARTIFACT	13.48	41.38	JB
1 2: —	LABORATORY ARTIFACT	14.87	21-27	JB -
2.	HABORATORI ARTITACI		,	
3				
5.				
				
6				
7.		·		
8.				
9.				
10.				
11.		·		
12.				
13.				
<u>1</u> 4.				
1 ±J.				
1 16.				i
1 1. / .				
1 10.		ļ		
1 <i>3</i> .				
20.		l		
Z l.		l	\	
22.			1	
23.				·
24				
25				
26.				
27.				
29.	_			
30.				
	_	1		١

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM	•	Contract: 8260B	
Lab Code: LIBRTY	Case No.:	SAS No.: SDG	No.: Q2849
<pre>Matrix: (soil/water)</pre>	WATER	Lab Sample ID:	Q2849-9
Sample wt/vol:	5 (g/ml) ML	Lab File ID:	Q2849-9B59
Level: (low/med)	LOM	Date Received:	01/16/03
% Moisture: not dec.		Date Analyzed:	01/22/03
GC Column: ZB-624	ID: 0.32 (mm)	Dilution Facto	r: 1.0
Soil Extract Volume:	(uL)	Soil Aliquot V	olume:(uL

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

41,62

			7(
COMPOUND NAME	RT	EST. CONC.	Q
		,	
ADORATORI ARTIFACT	 13.47	30.77	JB
HABORATORY ARTIFACT	14.86	9.70	JB.
			1
			-
	· 		
	·		
			
			
	·		
	l ———		
	l——		
			
			-
	I		
		LABORATORY ARTIFACT 12 47	LABORATORY ARTIFACT

CLIENT SAMPLE NO.

Soil Aliquot Volume: ____(uL

GW-6MW-8

ab Name: COMPUCHEM	(Contract: 8	3260B _		-
Lab Code: LIBRTY	Case No.:	SAS No.:	SDG 1	No.: Q2849	
Matrix: (soil/water)	WATER	La	ab Sample ID:	Q2849-13	
Sample wt/vol:	5 (g/ml) ML	La	ab File ID:	Q2849-13A59	
Level: (low/med)	LOW	Da	ate Received:	01/21/03	
% Moisture: not dec.		Da	ate Analyzed:	01/24/03	
GC Column: ZB-624	ID: 0.32 (mm)	Di	ilution Factor	r: 1.0	

Number TICs found: 1

Soil Extract Volume: ____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

4/1/2

		·		
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
		=======	=========	=====
1.	LABORATORY ARTIFACT	14.86	11.28	JB
2				
·	-			
~ T .				
5				
6. 7.				
8	-			
9.				
10.				
1 1 .				
14.	_			
1).				
43.		l		
15		ļ 		
16. 17.				
18.				
19.				
20.				
41.				
22.				
43.				
4 .	<u></u>	l		
25.	•			
26.	_			
41.	-			
20.				l ———
4, 2,	-	l———		
30				l
	_	I	!	I

CLIENT SAMPLE NO.

Soil Aliquot Volume: ____(uL

GW-MW-115

Lab Name: COMPUCHEM		Contract: 8260B	ll
Lab Code: LIBRTY (Case No.:	SAS No.: SDG	No.: Q2849
Matrix: (soil/water)	WATER	Lab Sample ID	: Q2849-11
Sample wt/vol:	5 (g/ml) ML	Lab File ID:	Q2849-11A59
Level: (low/med)	LOW	Date Received	: 01/21/03
% Moisture: not dec.	·	Date Analyzed	: 01/24/03
GC Column: ZB-624	ID: 0.32 (mm)	Dilution Facto	or: 1.0

CONCENTRATION UNITS:

Soil Extract Volume: (uL)

(ug/L or ug/Kg) ug/L Number TICs found: 2

			-31- 4/1/0°	W
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. -556-67-2	CYCLOTETRASILOXANE, OCTAMETH	13.47	22.52	NJ
2.	LABORATORY ARTIFACT	14.85	14.50	JB ~
4. 5.				
u .				
7. 8.				
10.				
12.				
LJ.				
L4. L5.				
7.				
19.				
20				
)')				
23.				
26.				
41.				
29.				
30				
	_ !	·		

FORM 1

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

GW-MW-117 Contract: 8260B

ab Name: COMPUCHEM

Lab Code: LIBRTY

Case No.:

LOW

SAS No.:

SDG No.: Q2849

Matrix: (soil/water) WATER

Lab Sample ID: Q2849-3

Sample wt/vol:

Lab File ID:

Q2849-3B59

Level: (low/med)

5 (g/ml) ML

Date Received: 01/15/03

% Moisture: not dec. _____

Date Analyzed: 01/22/03

GC Column: ZB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: ____(uL

Number TICs found: 10

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 556 67-2	CYCLOTETRASILOXANE, OCTAMETH	13.48	54.18	NJ
2. 611-14-3	BENZENE, 1-ETHYL-2-METHYL-	13.75		
3. 526-73-8 4. 622-96-8	BENZENE, 1,2,3-TRIMETHYL-	13.82	66.72	NJ
5. 526-73-8	BENZENE, 1-ETHYL-4-METHYL- BENZENE, 1,2,3-TRIMETHYL-	14.00 14.13	89.70 238.0	
6. 526-73-8	BENZENE, 1,2,3-TRIMETHYL-	14.45	170.4	
7.	UNKNOWN	14.62		J
8.	SUBSTITUTED BENZENE	14.86	67.71	
9. 27133-93-3 10. 119-64-2	2,3-DIHYDRO-1-METHYLINDENE NAPHTHALENE, 1,2,3,4-TETRAHY	15.61 15.77	76.16 44.22	1 1 / 1
	NAPHIRADENE, 1,2,3,4-TETRAHI	15.77	44.22	NJ 🖊
11.				
1 13.				
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			ļ 	
16.			<u> </u>	
1 1/.				
1 +0.				
, 19.				
20.				
1 44.				
23.				
1 44.				
25. 26.] —	
41.				
20.				
29.				
30				
l	l			

CLIENT SAMPLE NO.

GW-MW-118

Lab Name: COMPUCHEM	Contract	t: 8260B		_
Lab Code: LIBRTY Case No.:	SAS No	.: SDG	No.: Q2849	
Matrix: (soil/water) WATER		Lab Sample ID	; Q2849-4	
Sample wt/vol: 5 (g/ml) ML	Lab File ID:	Q2849-4B59	
Level: (low/med) LOW		Date Received	: 01/15/03	
% Moisture: not dec.		Date Analyzed	: 01/22/03	
GC Column: ZB-624 ID: 0.32 (1	mm)	Dilution Fact	or: 1.0	

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL

Number TICs found: 4 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

4/1/03

		 		ı ı
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1	LABORATORY ARTIFACT	=======	============	====
1.		13.48	53.22	
2.	LABORATORY ARTIFACT	14.86	45.74	
3.	LABORATORY ARTIFACT	16.18	21.48	J_
4. 90-12-0	NAPHTHALENE, 1-METHYL-	17.46	5.41	LN]
5				i
υ,				
7.				
8				
g -				
9				
10.				
+ + -				
_L &				
1.4				
.11.				
1/.				
18.				
19				
44.				
44.				
A.J.				
26.				
				
28.				
29		<u> </u>		
29.				
30				
	l		l <u>.</u>	1

FORM I VOA-TIC

CLIENT SAMPLE NO.

Soil Aliquot Volume: ____(uL

GW-MW-118D

the Name: COMPUCHEM	(Contract: 8260B	
Lab Code: LIBRTY (Case No.:	SAS No.:	SDG No.: Q2849
Matrix: (soil/water)	WATER	Lab Sam	ple ID: Q2849-5
Sample wt/vol:	5 (g/ml) ML	Lab File	D: Q2849-5B59
Level: (low/med)	LOW	Date Red	ceived: 01/15/03
% Moisture: not dec.		Date Ana	alyzed: 01/22/03
GC Column: ZB-624	ID: 0.32 (mm)	Dilution	n Factor: 1.0

Contract: 8260B

Soil Extract Volume: (uL)

Number TICs found: 2

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
======================================	LABORATORY ARTIFACT	13.47	26.44	- JB
2.	LABORATORY ARTIFACT	14.86	9.31	JB
3		_		
4.				
·		_ .		
) .		_ .		
<i>'</i> .		_		
		_		
<i>,</i> .				
<i>)</i> .				
		 .		
		- -		
3	-	- ·		
1 -	-	-		
		-		
7.		-		
3				
<i>,</i>				
L .				
4.				
) ,		_		l
ŧ.		_		
7				
5		_		
7				l ——
		_		
j.		_		l
0				l

FORM I VOA-TIC

CLIENT SAMPLE NO.

Soil Aliquot Volume: ____(uL

TRIPBLANK1-14

Lab Name: COMPUCHEM		Contract: 8260B	TRIPBLANKI-14
Lab Code: LIBRTY	Case No.:	SAS No.: SDG	No.: Q2849
Matrix: (soil/water)	WATER	Lab Sample ID:	Q2849-6
Sample wt/vol:	5 (g/ml) ML	Lab File ID:	Q2849-6B59
Level: (low/med)	LOW	Date Received:	01/15/03
% Moisture: not dec.		Date Analyzed:	01/22/03
GC Column: ZB-624	ID: 0.32 (mm)	Dilution Facto	r· 1 0

Number TICs found: 2

Soil Extract Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

41/05 ~

		· · · · · · · · · · · · · · · · · · ·	<u>, y</u>	. / -
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	LABORATORY ARTIFACT		=========	1
2.	LABORATORY ARTIFACT	13.48		0B
3	Zibokatoki Aktiiraci	14.80	15.17	DB .
4				
4				
5		ļ		
6	-			
7.		İ — ———		
8.				
9				
10.				
11.	-			
12	_			
	_			
L'1 .	_			
15.				
ισ.				
L / .				-
<u> </u>				
L J .				-
<u> </u>				
44.			·	
				
· · ·				
				
26.				
. <i>1</i> .		i		
29				
60.				
· · · · · · · · · · · · · · · · ·				
	_	l l		

CLIENT SAMPLE NO.

Soil Aliquot Volume: ____(uL

TRIPBLANK1-15

ab Name: COMPUCHEM	C	Contract: 82	260B _	
Lab Code: LIBRTY C	ase No.:	SAS No.:	SDG N	lo.: Q2849
Matrix: (soil/water)	WATER	Lab	Sample ID:	Q2849-10
Sample wt/vol:	5 (g/ml) ML	Lab	File ID:	Q2849-10B59
Level: (low/med)	LOW	Dat	ce Received:	01/16/03
% Moisture: not dec.	·	Dat	ce Analyzed:	01/22/03
GC Column: ZB-624	ID: 0.32 (mm)	Dil	lution Factor	: 1.0

Number TICs found: 2

Soil Extract Volume: ____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

4/1/3

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=======================================	= =====================================	=======		====
1.	LABORATORY ARTIFACT	13.48	19.39	JB ∼
2.	- LABORATORY ARTIFACT	14.87	9.88	JB
Z .				
ă · ———				
₹·		i ———		
5		l		
ο				ļ
7		<u> </u>		ļ
8				l
9		i		
0				
1.				
2				i ——
2.				·—
3.				l ——
7.				
J +		·		ļ
Ų.				
. / .			1	
. O .				
9				
ō				
1.		·		
4.		.		
J.		.		l
7 .				
5.				i
6				
7				
ģ · ———				
8				
		·		
0.		.		l
	1	1		I

FORM I VOA-TIC

SW840 WIETALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

| P

GW-6MW-3D	7

									GM-6WM-2D
Lab Name:	COMPUCHEN	1	Cont:	ract:					· · · · · · · · · · · · · · · · · · ·
Lab Code:	LIBRTY	Case No.	: S.	AS No.:			SDG N	lo . :	Q2849
Matrix (so	il/water)	: WATER		Lab	Sample	ID:	Q2849	<u>-1</u>	
Level (low	/med):	LOW		Date	e Receiv	ed:	1/15/	03	
% Solids:	0.0								
		Concentra	ntion Units (ug	/L or m	g/kg dry	wei	ght):	UG/	L
		CAS No.	Analyte	Conce	ntration	C	Q	М	
		7440-38-2	Arsenic	+	3.7	ָּט	-	P	!

32000

7439-89-6

Iron

Color Before:	COLORLESS	Clarity Before:	CLEAR	Texture:	
Color After:	COLORLESS	Clarity After:	CLEAR	Artifacts:	
Comments:					
<u>-</u>					9

3 YY 340 IYIE I AL3

INORGANIC ANALYSES DATA SHEET

INORGANIC ANALYSES DATA SHEET	EPA SAMPLE NO.
	GW-6MW-3S
Contract:	
Case No.: SAS No.:	SDG No.: Q2849
TER Lab Sample ID:	Q2849-12

Lab Code: LIBRTY Case No.: SAS No.: Lab Sample ID: Matrix (soil/water): WATER Date Received: 1/21/03 Level (low/med): LOW % Solids: 0.0

Lab Name: COMPUCHEM

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	С	Q	М
7440-38-2	Arsenic	3.7	U		P
7439-89-6	Iron	7510			P

Color Before:	COLORLESS	Clarity Before:	CLEAR	Texture:
Color After:	COLORLESS	Clarity After:	CLEAR	Artifacts:
Comments: _				
- -				10

SWOOD WIETALS

INORGANIC ANALYSES DATA SHEET

						_	E	PA SAMPLE	NO.
Lab Name: (COMPUCHEN	1	Contr	ract:				GW-6MW-4	
Lab Code:]	LIBRTY	Case No.	: SA	AS No.:		SDG	No.:	Q28 4 9	
Matrix (soi		WATER		Lab Sample II) :	Q284	9-14		
Level (low/	med): j	LOW		Date Received	: £	1/21,	/03		
% Solids: 0	0.0								
	-	Concentra	tion Units (ug/	L or mg/kg dry w	veig	ht):	UG/1		
		CAS No.	Analyte	Concentration	С	Q	М		
		7440-38-2	Arsenic	3.7	Ū		l P	[[
	<u> </u>	7439-89-6	Iron	4600	<u>'</u>		P		

Color Before:	COLORLESS	Clarity Before:	CLEAR	Texture:	
Color After:	COLORLESS	Clarity After:	CLEAR	Artifacts:	
Comments:					
_					-11

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

P

-								GW-6MW-4D	
Lab Name:	COMPUCHEM	1	Contr	act:		 			
Lab Code:	LIBRTY	Case No.:	SA	AS No.:	S	DG No	o.:	Q2849	
Matrix (so	il/water):	: WATER		Lab Sample II): <u>ç</u>	2849-	-15		
Level (low	/med):	LOW		Date Received	i: <u>1</u>	./21/0)3	<u></u>	
% Solids:	0.0								
		Concentrati	on Units (ug/	L or mg/kg dry w	reigh	t):	UG/L	•	
		CAS No.	Analyte	Concentration	С	Q	м		
	l I	7440-39-2	Argonia	3 7	U				

7439-89-6

Iron

4460

Color Before:	COLORLESS	Clarity Before:	CLEAR	Texture:
Color After:	COLORLESS	Clarity After:	CLEAR	Artifacts:
Comments:		·	W	
				12

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO. GW-6MW-5D

		0 0 0
Lab Name: COMPUCHEM	Contract:	
Lab Code: LIBRTY Case No.:	SAS No.:	SDG No.: Q2849
Matrix (soil/water): WATER	Lab Sample ID:	Q2849-7
Level (low/med): LOW	Date Received:	1/16/03
% Solids: 0.0		

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	С	Q	М	İ
7440-38-2	Arsenic	3.9	В		l l P	! }
7439-89-6	Iron	26900	İ		l P	i

Color Before:	COLORLESS	Clarity Before:	CLEAR	Texture:	
Color After:	COLORLESS	Clarity After:	CLEAR	Artifacts:	
Comments:		-			
 					

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

		-
GW-6MW-	58	

						O. VIII. 55	
Lab Name: COMPUCHE	М	Cont	ract:	<u> </u>			
Lab Code: LIBRTY	Case No.	: S.	AS No.:	sde	G No.:	Q2849	_
Matrix (soil/water)	: WATER		Lab Sample II): <u>Q</u> 2	849-8		
Level (low/med):	LOW		Date Received	i: <u>1/</u>	16/03	<u>_</u>	
% Solids: 0.0	_						
	Concentra	tion Units (ug	/L or mg/kg dry w	reight)): UG/	L —	
	CAS No.	Analyte	Concentration	C	Q M		
	7440-38-2	Arsenic	3.7	U	P	<u>-!</u> 	
	7439-89-6	Iron	95.0	B	P	Īβ	

416

Color Before:	COLORLESS	Clarity Before:	CLEAR	Texture:	
Color After:	COLORLESS	Clarity After:	CLEAR	Artifacts:	
Comments:					
_					
-					1.4

5 W 540 ME I ALS

INORGANIC ANALYSES DATA SHEET

						E	PA SAMPLE NO.
					Γ		GW-6MW-6
Lab Name: COMP	UCHEM	Cont	ract:				
Lab Code: LIBR	TY Case No.	: S.	AS No.:		SDG 1	10.:	Q2849
Matrix (soil/wa	ter): WATER		Lab Sample II) :	Q2849	9-2	
Level (low/med)	: LOW		Date Received	:	1/15/	/03	
% Solids: 0.0			45			(-	
	Concentra	tion Units (ug	/L or mg/kg dry v	veigl	ht):	UG/I	<u></u>
	CAS No.	Analyte	Concentration	С	Q	М	
	7440-38-2	Arsenic	3.7	U		P	Í
	7439-89-6	Iron	720	1 1		l P	ĺ

P

Color Bef	ore: (COLORLESS	Clarity Before:	CLEAR	Texture:	
Color Aft	er: (COLORLESS	Clarity After:	CLEAR	Artifacts:	
Comments:			·			
						4 F
						12

-1-

INORGANIC ANALYSES DATA SHEET

 EPA	SAMPLE	NO.	
 G	W-6MW-7		

					- 1		GW-6MW-7 .
Lab Name: COMPUCHE	<u>M</u>	Conti	act:		L		
Lab Code: LIBRTY	Case No.	: s <i>i</i>	AS No.:		SDG N	ίο. :	Q2849
Matrix (soil/water)	: WATER	·	Lab Sample I	D:	Q2849	9	
Level (low/med):	LOW		Date Receive	d:	1/16/	'03	
% Solids: 0.0							
	Concentrat	cion Units (ug/	L or mg/kg dry	weig	ht):	UG/L	<u>. </u>
	CAS No.	Analyte	Concentration	С	Q	М	
	7440-38-2	Arsenic	3.7	U		P	
ļ	7439-89-6	Iron	60.0	В		P	B

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

SW846 METALS -1-

	·	INO	RGANIC ANALY	SES DATA SHEET	Γ	E	PA SAMPLI	E NO.	
							GW-6MW-	8	•
Lab Name:	COMPUCHE	м	Contra	act:	·	_			
Lab Code:	LIBRTY	Case No.:	SAS	5 No.:	\$D	G No.:	Q2849		
Matrix (so	il/water)	: WATER		Lab Sample ID	: <u>Q</u> 2	849-13			
Level (low	/med):	LOW		Date Received	i: <u>1/</u>	21/03			
% Solids:	0.0	_							
		Concentrati	ion Units (ug/I	L or mg/kg dry w	eight)): <u>UG</u> /	<u>'L</u>		
		CAS No.	Analyte	Concentration	С	Q M			
		7440-38-2	Arsenic	3.7	Ū	P	j	,	
		7439-89-6	Iron	1040		P	<u> </u>		
								ji Ng	
			÷						

Color Before: _	 Clarity Before	:	Texture:	
Color After: _	 Clarity After:		Artifacts:	
Comments:	 		· 	
				17

INORGANIC ANALYSES DATA SHEET

EPA	SAMPLE	NO.
G	W-MW-115	

					- 1		GW-MW-115
Lab Name: COMPU	CHEM	Cont	ract:		L		
Lab Code: LIBRT	Y Case No.	: s	AS No.:		SDG 1	No.:	Q2849
Matrix (soil/wat			Lab Sample I	D:	Q284	9-11	
Level (low/med):	LOW		Date Receive	d:	1/21,		***************************************
% Solids: 0.0	<u> </u>						
	Concentra	tion Units (ug/	L or mg/kg dry	weig	ht):	UG/L	
	CAS No.	Analyte	Concentration	С	Q	М	
	7440-38-2	Arsenic	3.7	U		 	
	7439-89-6	Iron	7120	1 1		P	

7120

Color Before: COLORLESS Clarity Before: CLEAR Texture: Color After: COLORLESS Clarity After: CLEAR Artifacts: Comments:

INORGANIC ANALYSES DATA SHEET

Contract:

	EPA	SAMPLE	ΝО.	
	G	W-MW-117	•	ı
L				

D Code: LIERTY Case No.: SAS No.: SDG No.: Q2849	Lab Code: LIBRTY Case No.: SAS No.: SDG No.: Q2849 Matrix (soil/water): WATER Lab Sample ID: Q2849-3 Level (low/med): LOW Date Received: 1/15/03 % Solids: 0.0 Concentration Units (ug/L or mg/kg dry weight): UG/L
Date Received: 1/15/03	Date Received: 1/15/03 Solids: 0.0 Concentration Units (ug/L or mg/kg dry weight): UG/L
Date Received: 1/15/03	Solids: 0.0 Concentration Units (ug/L or mg/kg dry weight): UG/L
Concentration Units (ug/L or mg/kg dry weight): UG/L CAS No. Analyte Concentration C Q M	Concentration Units (ug/L or mg/kg dry weight): UG/L
Cas No. Analyte Concentration C Q M	Concentration Units (ug/L or mg/kg dry weight): UG/L
CAS No. Analyte Concentration C Q M	Concentration onto (ug/ 1 of mg/ mg m)
7440-38-2 Arsenic 26.8 P 7439-89-6 Iron 9240 P	CAS No. Analyte Concentration C Q M
7439-89-6 Iron 9240 P	
	7440-38-2 Arsenic 26.8 P
•	
Color Before: COLORLESS Clarity Before: CLEAR Texture:	· · · · · · · · · · · · · · · · · · ·

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

GW-MW-118

Lab Name:	COMPUCHE	M	Cont	ract:	<u> </u>	i
Lab Code:	LIBRTY	Case No.		AS No.:	SDG No.: Q2849)
Matrix (so	il/water)	: WATER		Lab Sample I	D: <u>Q2849~4</u>	
Level (low	/med):	LOW		Date Receive		
% Solids:	0.0					
		Concentra	tion Units (ug/	L or mg/kg dry	weight): UG/L	
		CAS No.	Analyte	Concentration	C Q M	
		7440-38-2	Arsenic	3.7	U P	
	ļ	7439-89-6	Iron	2360	P	
	•					
Color Bef	ore: COLO	RLESS C1	arity Before:	CLEAR	Texture:	
Color Aft	er: COLO	RLESS C1:	arity After:	CLEAR	Artifacts:	
Comments:						

INORGANIC ANALYSES DATA SHEET

EPA	SAMPLE	NO.	
GW	-MW-1181)	

		•				EPA SAMPLE NO.
						GW-MW-118D
Lab Name: COMPUCHE	M	Contra	ict:			
Lab Code: LIBRTY	_ Case No.:	SAS	S No.:	_ '	SDG No.:	Q2849
Matrix (soil/water)): WATER		Lab Sample II): <u>ç</u>	22849-5	
Level (low/med):	LOW		Date Received	d: [1/15/03	
% Solids: 0.0						
	- Concentrat:	ion Units (ug/I	C or mg/kg dry w	veigh	nt): <u>U</u>	G/L ———
	CAS No.	Analyte	Concentration	С	Q N	1
	7440-38-2	Arsenic	3.7	U	İ	P
	7439-89-6	Iron	2220	<u> </u>		P

Color Before:	COLORLESS	Clarity Before:	CLEAR	Texture:	
Color After:	COLORLESS	Clarity After:	CLEAR	Artifacts:	
Comments:					
_					21

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

								GW-6MW-3D
Lab Name:	COMPUCHE	М	Cont	ract:		L		
Lab Code:	LIBRTY	Case No.:		SAS No.:		SDG N	0.:	R2849
Matrix (soi	.l/water):	WATER		Lab Sample ID	:	R2849	9-1	
Level (low/	med):	LOW		Date Received	.:	01/15	5/03	
% Solids:	0.0						-	
% Solids:	0.0	- Concentrat	ion Units (ug/L	or mg/kg dry weig	ht):		UG/	L
% Solids:	0.0	Concentrat	ion Units (ug/L Analyte	or mg/kg dry weight	ht):	Q	UG/	
% Solids:	0.0	Γ		· · · · · · · · · · · · · · · · · · ·		Q	-	 L

Color Before:	COLORLESS	Clarity Before:	CLEAR	Texture:	
Color After:	COLORLESS	Clarity After:	CLEAR	Artifacts:	
Comments:	Dissolved	11.63			
					9

SW-846 METALS -1-

INORGANIC ANALYSES DATA SHEET

							1	EPA SAMPLE NO.
						Γ		GW-6MW-3S
Lab Name: COMPUCHE		EM	Cont	Contract:				
Lab Code:	LIBRTY	Case No.:	s	SAS No.:		SDG N	o.:	R2849
Matrix (soi	il/water):	WATER		Lab Sample ID	:	R2849	9-10	
Level (low,	/med):	LOW		Date Received	:	01/21	/03	
% Solids:	0.0	_						
		Concentrat	ion Units (ug/L	or mg/kg dry weigh	ht):		UG/	L ——
		CAS No.	Analyte	Concentration	С	Q	М	
		7440-38-2	Arsenic	3.6	U		P	<u> </u>
			 				-	

Color Before:	COLORLESS	Clarity Before:	CLEAR	Texture:	
Color After:	COLORLESS	Clarity After:	CLEAR	Artifacts:	
Comments:	Dissolved	4/1/32			
					10

SW-840 WEIALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

Lab Name: C	COMPUCHEN								
Lab Name: C	COMDITCHEN					- i		GW - 6MW - 4	
	JOHN OCHEP	1	Contract:					-	
Lab Code: <u>I</u>	LIBRTY	Case No.:	S	AS No.:	_	SDG No	o.:	R2849	_
Matrix (soil/	water):	WATER		Lab Sample ID:	Ī	R2849	-12	·	
Level (low/me	od):	LOW		Date Received:	9	01/21	/03		
% Solids: 0	0.0								
		Concentrat	ion Units (ug/L	or mg/kg dry weigh	t) :		UG/1	<u></u>	
		CAS No.	Analyte	Concentration	c	Q	М		
	į	7440-38-2	Arsenic	3.6	Ü		 P		
	Ī	7439-89-6	Iron	1820			P	+	

4/1/3

Color Before:	AETTOM	Clarity Before:	CLEAR	Texture:
Color After:	YELLOW	Clarity After:	CLEAR	Artifacts:
Comments:	Dissolved	4/163		
				11

SW-840 METALS

INORGANIC ANALYSES DATA SUPET

			INURGANIC A	VAL VOES DATA SHE	E.I		EPA	SAMPLE NO.
						٦	G	N-6MW-4D
Lab Name:	COMPUCHE	м	Conti	ract:				····
Lab Code:	LIBRTY	Case No.:	S.	AS No.:	_	SDG N	lo.: <u>R2</u>	849
Matrix (soi	ll/water):	WATER		Lab Sample ID:		R284	9-13	
Level (low)	med):	LOW		Date Received:		01/2	1/03	
% Solids:	0.0							
		CAS No.	On Units (ug/L	or mg/kg dry weigh	t):	Q	UG/L M	
		7440-38-2	Arsenic	3.6	U		P	
		7439-89-6	Iron	1800			I P 1+	
								alilia

Color Before: YELLOW Clarity Before: CLEAR Texture: Clarity After: Color After: YELLOW CLEAR Artifacts: 41.13-Comments:

SW-846

SW-840 METALS

INORGANIC ANALYSES DATA SHEET

								EPA SAMPLE NO.
								GW-6MW-5D
Lab Name: COMPUCHE		Contract:				 		
Lab Code:	LIBRTY	Case No.:	ss	AS No.:		SDG N	o.:	R2849
Matrix (soi	il/water):	WATER		Lab Sample ID:	:	R2849	-6	
Level (low/	/med):	LOW		Date Received:	:	01/16	/03	
% Solids:	0.0	_						•
	0.0	_	ion Units (ug/L	or mg/kg dry weigh	nt):	Q	UG/	<u>.</u>
	0.0	Concentrat		· · · · · · · · · · · · · · · · · · ·		Q		L

Color Before:	YELLOW	Clarity Before:	CLEAR	Texture:	
Color After:	YELLOW	Clarity After:	CLEAR	Artifacts:	
Comments:	District	4/1/3_			
					13

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO. GW-6MW-5S

Lab Name:	COMPUCHE	EM	Con	tract:			· · · · · · · · · · · · · · · · · · ·	
Lab Code:	LIBRTY	_ Case No	.:	SAS No.:		SDG No.:	R2849	
Matrix (soi	l/water):	WATER		Lab Sam	ple ID:	R2849-7		
Level (low/	med):	LOW		Date Re	ceived:	01/16/03		
% Solids:	0.0	_						
		Concentra	ation Units (ug/	L or mg/kg dry	y weight):	ug/	L	
		CAS No.	Analyte	Concentra	tion C	Q M		
		7440-38-2	Arsenic		3.6 U	· <u>'</u>	<u></u>	
		7439-89-6	Iron		42.5 B	P	1 KD	
							HB HILD	
Color Befo	ore: COI	LORLESS	Clarity Before:	CLEAR	Т	exture:		· · · · · · · · · · · · · · · · · · ·
Color Afte	er: COI	LORLESS	Clarity After:	CLEAR	Α	rtifacts:		
Comments:		Disoduel	4/1/102		 <u>-</u>			
							14	
						 		

SW-846 WELALS

									EPA SAMPLE N
									GW-6MW-6
Lab Name:	COMPUCHE	М	Cont	ract: _				L	
Lab Code:	LIBRTY	Case No.:		SAS No.:			SDG	N o.:	R2849
Matrix (soi	1/water):	WATER		Lab :	Sample ID	:	R28	49-2	
								/	
Level (low/	med):	TOM		Date	Received	:	01/	15/03	
Level (low/ % Solids:	0.0						01/		
			on Units (ug/L	or mg/kg			<u>017</u>	<u>UG/</u>	/L
		Concentrati		or mg/kg	dry weigl	ht):		ŬG/	/L

Color Before:	COLORLESS	Clarity Before:	CLEAR	Texture:	
Color After:	COLORLESS	Clarity After:	CLEAR	Artifacts:	
Comments:	Dissolul	4/1/32			
- -					15

5W-840 METALS -1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO. GW-6MW-7 Lab Name: COMPUCHEM Contract: Lab Code: LIBRTY Case No.: SAS No.: SDG No.: R2849 Matrix (soil/water): WATER Lab Sample ID: R2849-8 Level (low/med): TOM Date Received: 01/16/03 % Solids: 0.0 Concentration Units (ug/L or mg/kg dry weight): UG/L С Analyte Concentration CAS No. М U 7440-38-2 Arsenic 3.6 P 7439-89-6 22.6 В Iron P

41,13

Color Before:	COLORLESS	Clarity Before:	CLEAR	Texture:	
Color After:	COLORLESS	Clarity After:	CLEAR	Artifacts:	
Comments:	Disolad	4/cls m			
			**-		16

SW-840 METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO. GW-6MW-8

<u> </u>		:
SDG No.:	R2849	_
R2849-11		
01/21/03		

Lab Code: LIBRTY

Lab Name: COMPUCHEM

Contract:

Case No.: SAS No.:

Lab Sample ID:

Matrix (soil/water): Level (low/med):

WATER

LOW

Date Received:

01/21/03

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight):

UG/L

CAS No.	Analyte	Concentration	С	Q		М	
7440-38-2	Arsenic	3.6	U		Ť	P	ĺ
7439-89-6	Iron	1150	1		1	P	İ.

Color Before:	COLORLESS	Clarity Before:	CLEAR	Texture:		
Color After:	COLORLESS	Clarity After:	CLEAR	Artifacts:		
Comments:	Dimle	D 4/1/32				-
- - -					17	

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

GW-GW-117

Lab Name:	COMPUCHE	м	Contra	ct:		L			
Lab Code:	LIBRTY	Case No.:	SAS	No.:	_	SDG No	·.:	R2849	
Matrix (so	l/water):	WATER		Lab Sample ID:		R2849	-3		
Level (low,	med):	LOW		Date Received:		01/15	/03		
% Solids:	0.0								
	·	Concentrat	ion Units (ug/L o	r mg/kg dry weigh	t):		UG/	<u>L</u>	
		CAS No.	Analyte	Concentration	С	Q	м		
		7440-38-2	Arsenic	27.1			P	ĺ	
		7439-89-6	Iron	8840		<u> </u>	P	1	
Color Be Color Af			Clarity Before:	CLEAR		exture:			
00101 AL					4 3.1				
Comments	: .	Dissoled	4/1/3~					<u> </u>	

SW-840 WILLALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

GW-GW-11	8

Lab Name:	COMPUCHE	M	Cont	ract:		L		
Lab Code:	LIBRTY	Case No.:	s	AS No.:		SDG N	o.:	R2849
Matrix (soi	l/water):	WATER		Lab Sample ID:		R2849	-4	
Level (low/	med):	LOW		Date Received:		01/15	/03	
% Solids:	0.0	_						
		Concentrat	ion Units (ug/L	or mg/kg dry weigh	t):		UG/I	•
		CAS No.	Analyte	Concentration	С	Q	М	
		7440-38-2	Arsenic	3.6	U		P	1_ a
		7439-89-6	Iron	140	1		P	NU N

Color Before:	COLORLESS	Clarity Before:	CLEAR	Texture:	
Color After:	COLORLESS	Clarity After:	CLEAR	Artifacts:	
Comments:	Dissolved	4/1/13-			
- - -					19

		INORGANIC AI	NALYSES DATA SHEET	EPA SAMPLE NO.
				GW-GW-118D
Lab Name: COMPUCH	EM	Cont	ract:	<u> </u>
Lab Code: LIBRTY	Case No.:	s	AS No.:	SDG No.: R2849
Matrix (soil/water):	WATER		Lab Sample ID:	R2849-5
Level (low/med):	LOW		Date Received:	01/15/03
% Solids: 0.0				
-	Concentrati	on Units (ug/L	or mg/kg dry weight)	: UG/L
	CAS No.	Analyte	Concentration	C Q M
	7440-38-2	Arsenic	3.6	P
	7439-89-6	Iron	135	I IPH B
				I I P HK B

Color Before:	COLORLESS	Clarity Before:	CLEAR	Texture:	
Color After:	COLORLESS	Clarity After:	CLEAR	Artifacts:	
Comments:	Dissolud	2 4/1/032	-	**************************************	
-					20

-1-

INORGANIC ANALYSES DATA SHEET

4.2

7100

EPA SAMPLE NO.

P

	-	
GW-MW-1:	15	

Lab Name:	COMPLICATION		G	_1 .		L		
Lab Name:	COMPUCHE	41	Contra					
Lab Code:	LIBRTY	Case No.:	SAS	No.:		SDG No	.:	R2849
Matrix (soi	l/water):	WATER	 	Lab Sample ID:		R2849	-9	
Level (low/	med):	LOW		Date Received:		01/21	/03	
% Solids:	0.0							
		Concentratio	n Units (ug/L o	mg/kg dry weigh	t):		UG/1	<u>L</u>
		CAS No.	Analyte	Concentration	С	Ω	м	

Arsenic

Iron

7440-38-2

7439-89-6

Color Before:	COLORLESS	Clarity Before:	CLEAR	Texture:	
Color After:	COLORLESS	Clarity After:	CLEAR	Artifacts:	
Comments:	Dissil	red 4/1/13	<u> </u>		
, –					21



APPENDIX D

SUPPORT DOCUMENTATION

		: :
		: - :
		: 4

TABLE D-1 USEPA REGION III SUMMARY OF CALIBRATION OUTLIERS TCL VOCs

SDG Number: S2812, T2812 and Q2849

Laboratory: CompuChem

	1	Thing Colib			:							
Instrument/File ID: Date/Time:	F500.	F50052/CT021213A52 12/13/02 / 11:27	213A52 1:27	F5005	Continuing Calibration F50052/CU030114A52 01/14/03 / 11·48	ration 4A52 18	Contin F5005	Continuing Calibration F50052/CU030115A52	ration 5A52	Contin F5005	Continuing Calibration F50052/CU030116A52	ration 6A52
=	200	תמת/פ	,				OI,	. 13/03 / 09:	30	Ŝ	01/16/03 / 10:36	96
	NNL	70KSD	_ode_	KKF		Code*	RRF	Q%	Code*	PPF	7.7	******
	_										70/	Code
Acetone	0.00											
/ rectalle	0.039		ပ	0.040		ر	0.042		(150		
)	71000		ار	0.034		ပ
					_	-						
			! -									
, DI 7: -33 V												
Affected Samples:	ER-SS-120402	2		GW-MW01, G	GW-MW01, GW-MW02, GW-MW02D, Trip Blank (3), GW-MW11 GW-MW08	v-MW02D,	Trip Blank (3),	GW-MW11		GW-MW10, GW-MW07, ER-SS-010803, GW-MW09, GW-MW05, GW-MW06, ER- SS-010903	V-MW07, ER-S V-MW05, GW-	SS-010803, MW06, ER-

Codes:

C - The RRF was <0.05 in the continuing calibration. Therefore, non-detect results are rejected ("R"), while positive results are qualified biased low ("L").

SDG Number: T2812 and Q2849

Laboratory: CompuChem

Instrument/File ID:	Contil 5972H	Continuing Calibration 5972HP59/GS030121B59	oration 121B59	Conti 5972H	Continuing Calibration 5972HP59/GS030125A59	bration 125A SQ	Conti	Continuing Calibration	ration	Conti	Continuing Calibration	ration
Date/Time:	0	01/21/03 / 21:17	17	0	01/24/03 / 11:09	60:						
	RRF	%RSD	Code*	RRF	Д%	Code*	RRF	Ø%	Code*	RRF	%D	Code*
Acetone	0.044		C	0.040		l						
						,						
									_			
Affected Samples:	GW-MW03, GW-6MW-3D, GW-6MW-6, GW MW-117, GW-MW-118, GW-MW-118D, Trip Blank (2), GW-6MW-5D, GW-6MW-5S, GW- 6MW-7	7-6MW-3D, GW. fW-118, GW-M MW-5D, GW-61	-6MW-6, GW- W-118D, Trip AW-5S, GW-	GW-MW03, GW-6MW-3D, GW-6MW-6, GW- MW-117, GW-MW-118, GW-MW-118D, Trip Blank (2), GW-6MW-5D, GW-6MW-5S, GW- 6MW-7	4, GW-6MW-35	S, GW-6MW-						

Codes:

C - The RRF was <0.05 in the continuing calibration. Therefore, non-detect results are rejected ("R"), while positive results are qualified biased low ("L").

TABLE D-2 USEPA REGION III SUMMARY OF CALIBRATION OUTLIERS TCL SVOCs

SDG Number: Q2812, R2812, and S2812

Laboratory: CompuChem

** RRF %D Code* 0.033 C SS-MW09-0, SS-MW09-1, MW-SS09-4	T. ACEST TP.		Continuing Calibration	ration 10B64	Conti	Continuing Calibration 5977HP64/HH021215A64	ration 215A64	Contin 5972HF	Continuing Calibration 5972HP64/HH021218A64	ration 218A64	Contin 5972HI	Continuing Calibration 5972HP64/HG021217B64	ration 17B64
RRF %RSD Code* RRF %D Code* Code* 0.044 C 0.033 C 0.033 C nples: ER-SS-120402, SS-MW11-1, SS-MW10-4 ER-SS-121002 SS-MW09-0, SS-MW09-1, MW-SS09-4	Instrument rue 1D:		21.201111/ 2 0.1	15	12	1/15/02 / 11:	21	12	./18/02 / 09:	57	12	12/17/02 / 18:42	42
0.044 C 0.033 C 0.033 C Samples: ER-SS-120402, SS-MW11-1, SS-MW10-4 ER-SS-121002 SS-MW09-0, SS-MW09-1, MW-SS09-4	Date/ Line.		%RSD	Code*	1	₩D	Code*	RRF	ΨD	Code*	RRF	%D	Code*
0.044 C 0.033 C Samples: ER-SS-120402, SS-MW11-1, SS-MW10-4 ER-SS-121002 SS-MW09-0, SS-MW09-1, MW-SS09-4													
Samples: ER-SS-120402, SS-MW11-1, SS-MW10-4 ER-SS-121002 SS-MW09-0, SS-MW09-1, MW-SS09-4	Attoring	0.044		C	0.033		O	0.033		C	0.035		၁
ER-SS-121002 SS-MW09-0, SS-MW09-1, MW-SS09-4	Allazille												
ER-SS-121002 SS-MW09-0, SS-MW09-1, MW-SS09-4													
ER-SS-121002 SS-MW09-0, SS-MW09-1, MW-SS09-4													
	Affected Samples:	ER-SS-120402	, SS-MW11-1, 5		ER-SS-121002			SS-MW09-0, S	S-MW09-1, M	W-SS09-4	SS-SB05-0, SS-SB05-1, SS-SB05-4, SS- MW11-0	-SB05-1, SS-SE	305 4, SS-

Codes:

C - The RRF was <0.05 in the continuing calibration. Therefore, non-detect results are rejected ("R"), while positive results are qualified biased low ("L").

SDG Number: T2812

Laboratory: CompuChem

Instrument/File ID:		Continuing Calibration 5972HP64/HG031009A64	ration 09A64	Contii 5972HI	Continuing Calibration 5972HP64/HG030112A64 01/12/03 / 10:30	ration 112A64 30	Contin 5972HP 01,	Continuing Calibration 5972HP64/HG030119A64 01/19/03 / 10:59	19A64	Conti	Continuing Calibration	ration
Date/ 1 me.	RRF	%RSD	Code*	RRF	Ф%	Code*	RRF	WD	Code*	RRF	%D	Code*
Artestine	0.044		S	0.021		S	0.016		S			
2 manual												
Affected Samples: GW-MW01, GW-MW02-D, GW-MW02	GW-MW01, G	W-MW02-D, G		Gw-Mw09, G SS010903	w-Mwos, Gw	Gw-Mw09, Gw-Mw05, Gw-Mw06, ER- SS010903	GW-MW03		-	· · · · · · · · · · · · · · · · · · ·		

Codes:

C - The RRF was <0.05 in the continuing calibration. Therefore, non-detect results are rejected ("R"), while positive results are qualified biased low ("L").

CompuChem

a division of Liberty Analytical Corporation 501 Madison Avenue Cary, N.C. 27513

Tel: 919/379-4100 Fax: 919/379-4050

SDG NARRATIVE SDG #02812

SAMPLE IDENTIFICATIONS: SSMW07-0 SSMW07-1 SSMW07-4 SSMW08-0 SSMW08-1 SSMW08-4 SSMW11-1 SSMW11-4 SSMW11D-1 SSMW11D-4(RE) SSMW10-0 SSMW10-4 SSMW10D-4 SS-MW09-0 SS-MW09-1 SS-MW09-4

The sixteen soil samples listed above were received intact, in EnCore samplers, at 3.5, 4.9, and 3.3, degrees C, with proper documentation, in sealed shipping containers, on December 04, and 11, 2002. All samples were submitted for volatile, TOC, semivolatile, pesticide-PCB, and metals analysis. The volatile samples and were prepared and analyzed following SW846 Method 8260B, and this portion of the SDG narrative will only cover the volatile data. All pertinent Quality Assurance Notices are included in the narrative section, and all pertinent Laboratory Notices for SDG # Q2812 are included in the sample data sections. Analysis holding time requirements were met for all of these samples, and sample dry weight values ranged from 3 to 20 percent.

The volatile target analytes acetone, methylene chloride, and tetrachloroethene were the most frequently identified above the reporting limits in the submitted samples.

The analyses of samples SSMW11D-4, and SSMW10-0 failed high for recovery one or more SMC compounds and/or internal standards low for response, and this was confirmed as matrix interference by reanalysis for SSMW11D-4, and for this sample we have reported both runs. The same failing trend for high recovery of the bromofluorobenzene SMC in SSMW10-0 was evident in the duplicate matrix spikes generated from this original, and served to document matrix interference.

There is no Form VII for the batch BG021210A59(12:52) on instrument 59. This batch included an initial calibration and the relavent relative response factors are all displayed on the Form VI. The initial calibration met all acceptance criteria and therefore samples could be analyzed without having to analyze a continuing calibration verification standard.

Numerous late eluting Tentatively Identified Compounds (TICs) were present SSMW10-4, and SSMW10D-4, and were generally assessed as peaks of unknown characterization, and various alkanes.

All Bromofluorobenzene (BFB) abundance criteria were met for tunes associated to this SDG. Overall QC criteria were met for all initial and continuing calibration standards associated to this SDG.

All of the system monitoring compounds(SMCs) met recovery criteria in the analyses of these samples(except as noted above), and all of the internal standards met response and retention time criteria in the analyses of these sample(except as noted above).

The associated method blanks met all QC criteria, and did not contain any target analytes above the reporting limits.

The duplicate matrix spikes were generated from SSMW10-0 as requested, and met all QC spike compound precision, and accuracy criteria.

The associated Laboratory Control Samples (LCSs) met all accuracy criteria.

Manual Quantitations were performed on some of the process files in the associated initial and continuing calibrations. The reasons have been coded with explanations provided in the notice included in the narrative section of this SDG.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package, and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Roy Sutton

Case Reviewer

December 22, 2002

•	COMPÚCH COMM	EKCIAL P	ECEI VI	perty Analy NG LOG					-	
	Rec'd Date: 12	-4-07				Lab Instri	ictions			
Client: Malcon Pinnie. Project: 80 DRS	Courier: U	PS	1070 D	TCL T	26				0	-
Project: 80 JRS	Airbill No. (Z	23067022	0515						$\frac{\circ}{\sim}$	-
B 2 0 / 2]		0480	Usefa	<u>ULC</u>					_
Login No. G. K.S. 2012										
Subcontract?										
TAT Verbal Report		. •			Parar	neters				
- hall					T					- {
Cooler Rec'd By:				1		1		1		
Cooler to Sin By:				1		}	•	ļ		
Temperature: 3,5-74.7 °C Temperature: 3,5-74.7 °C NA)			1	1	; !		1	}	-
			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1	1			}	1	į
St of Semples Checken for the			Pest	ł	PH	Drywt,		ł		İ
Received in Good Condition?		ļ	Pest	i	1 177	127		Ì	Ţ	į
If no, explain:		VOA	Svoc	netals	TOC No. & P	No. & P	No. & p	No. &	p No. &	P
	ate Military	No. & P		p No.& H Type	p No.& p H Type H	Туре Н	Type H	Туре	н Туре	Н
		Type H	Туре	н турс	_}	1			<u> </u>	† †
		3,53,000	1.800	1.49	1.402	1.40		1		
028/1-1 55 MW 07-0 SO 17	· U DI A DI	1	7	, 0	10			1		+-
	09:35	 	 					 		+
1 2	09:40		 		-					4
3 4 -4	1 130				╼╂╼╼╌╂╼╼╾┼╾	1-1-		1		
4 mw68-0	1 11:35				_}	╀╾╂╌╌┼╌				
		1-1-	17				 	1		
	140	 - -	1-1-			 - - 		-		+-1
	14:50	2	 							+
7 mw11-1	14:55	1	1-1	╼╁╼╼╁╌╌╁						
8 4-4	1 452		1_1_	╌┠╼╌╂╼╌┼				1		
9 mw 110-1:	14:57			V	V	- W				
1 _A	1 1431	+-V		3.40	3.403	3,400				7
70	1 330	9.510cm	318m		3/200	7.2.3		1		-
1/ MW10-0 X	13:42	15 sucae	21807	300		1.40				4
1/2 -4	13 42	3.54 mare	1.800	1.400	1.40	1:31				
13 MU 100-4		9.50	3.88	3.4.5	3.40	15 th				
2 - 512 - 1 41/10-1	15 37		3	1-0	1 4	 				
R 28/2-1 MW 10-1 WA	N -	1-40 die	1					-		+
S28/2-1 TRIP BLANK WIT	7				-	1		_		
	An	12/4	12							+
	1211	+	1 1	1			1)		1

Contair Type Abbreviations: 40mL(40mL vial) AL(Amber Liter) PL(P)astic Liter) 500P(500mL Plastic) 250P(250mL Plastic) OTHER

rii - 6/28/01 dee

	СомриСн	TT N/I				CH/	AIN-C	DF-C	UST	ODY	RE	CC	DRI	D							No	o. 068036	
	division of Liberty Analyti		Project	Name:	0 T	as	-		Clien	t Addre	SS 7	44	lcul			7			Po	int-c	of-Cor	otact ·	
	501 Madison Avenu	Je	Carrier			<u> </u>				Town					#6	<u>∞</u> 0	1		<u> </u>			PALE	
	Cary, NC 27513		Airbill N							JPURT		~	<u>Sw</u>	<u>s_</u>								10.757 873-870QU	
	1-800-833-5097				Lec	lyn Pe	el.c			3606										_		omplete? Y o (See Note	1)
BOX #1	1. Surface Water	6. Trip Blank			A. HCI		F. Ice C		Samp	ler Sign:						τ				_		cific (PS) or Batch (B) QC ?	
DOX # 1	2. Ground Water	7. Ok	•	BOX #2	B. HNO		G. Othe			80X #3	3		itered Inflite			Во	x #4	•		High			TCLP
	3. Leachate	8. Waste				H + Ice		504 + lo				U.,U	MIKE	rea						Medi	ΉLL	S. SW-846	
l	4. Rinsate	9. Other								Ì									L. L	OW		W. CWA 600-series	
	5. Soil / Sediment / Slud	ige			E. Unpr	reserved																O. Other	—
	**************************************		T	Box #1	Box #2	Box #3	Sox #4	Box #6	1	T	7		_	7	T	_				一	一	<u> </u>	
	•	13				8				i							7						
	Commis (D	S	.			ا في	و			၂ ဗွ					3	ĺ	6						
/a ch	Sample 1D naracters maximum)	Date:Year: 2002	1		Š	Filtered / Unfiltered	Expected Conc.		No. of Bottles	Use for Lab QC (MS or DUP)		1			18		*	Ŧ				Remarks / Comment	s
(9 4	iaraceis maximum)	\ <u>\$</u>		צ	2	8	흉	8	👸	2 2		ان	용	용	A	8	£	/TP			İ	(see Notes 2 & 3)	
ļ		l ğ	- L	Matrix	Preservative	₹	Ř	Method	٩	MS.	δV	SVOC	Pesticide	Herbicide	AL THE DAY	5	8	J&G / TPH					
551	NW 7-10	1213	9:50	5	F	U		5	4		Y	j			1) H			十	+	succipest/pub all in one but	
S S M	1 N D 7 - 0	12/3	9:30	5	٦	u		5	Ź		6	7	11		1		7		寸	_	_	all in the both	
55-	MW87-1	 	9:35	5	F	U		5	7	 	y	<u>.</u>	`	,	V		7		+	+	+	all the the sol	70_
		10,3	1.77		<u> </u>	-			7	 	7	*	' '	'			7		-	\dashv			
55-										_		\dashv	-	-			_	4	-	-	┿	TUC + PH are	
	MN07-4	1213	9:40	5	F	U	ļ'	5	7		4	1 1	1	\bot	<u> </u>		1					together-	
- -			<u>:</u>																1				
55-	mus 8- 0	12/3	11:30	5	F	И		5	7		4	1	1 1				1				1		\neg
5 -	MW 8 - 1	123	11:35	_	F	и		5	7		4		1		ī		1		1	1	\top		
55-	mw 08-4	213	11 40	, ,	P	и		4	7		u	$\ddot{1}$	111	+	-		┧	+	+	+	+-		
1-1-	+ + + + + + + + + + + + + + + + + + + +	10,5	,,,,,	<u> </u>							\vdash	+	4	+	1	\dashv	4	\dashv	+	+	+		
		L.L]:				L			<u>. </u>	Ш			ᆚ	Ш			\perp	\perp	丄	丄	3>	
	pecial Instructions:																					Temperature 4.7)C
	eived in Good Condition				ms, If an																		
	ilshed By: (Sig)					#2 Relino	juished B	ly: (Sig)	·····			_ (Date:			#3 F	Relin	quiel	hed i	Ву: (8	Sig)	Date:	
Company	. 0 . 2	MALE		Time:		Company							ime:			Con	pan	y Na	me:			Time:	
#1 Receive	ed By: (Sig) Li Sal	uller			1	#2-Recei		Sig)					ate:			#3 F	tece	wed	Ву. (Sig)		Date:	
Company	Name: Coul	such	em	Time: (c	2e ()	Company	/ Name:					T	ime:			Соп	ימפטי	v Na	me.			Time	

Company Name:

Time:

Time:

Note (1): If "N" lab will hold samples to await remainder of project-maximizing batch size and minimizing QC ratio; if "Y" lab will begin processing batches now. Note (2): Samples stored 60 days after date report mailed at no extra charge. Note (3): All lab copies of data destroyed after three years.

	COMPUCHEM a division of Liberty Analytical Corp.
--	--

CHAIN-	OF-CUS	YGOT	RECORD

	JU	M	P	U		H	EI	M	Г	Drois	ad N	ame		<u>Un</u>	WIIA-	UF-L					<u> </u>	<u>D</u>	_						N	lo. 068034
a ·	divisio	n of	Libe	rty A	\nal	ytica	al Co	эгр.	ı	rioje	CC IN	ame	80 1	פפח			Clien	t Addre	SS								Po	oint-		ontact :
	50	1 M	adis	on A	٩ve	nue	•			C								colm .												Pace
			y, N						-	Carri			UB				701	Town	Ce	nte	r D	riv	e,	#6	00		_			No.:757-873-8700
		1-80	8-0	33-	509	7				Airbil								port			VA	236	06				1 _{Sa}	erio Idina	lina	complete? YouN (see Note 1)
BOX #1	1. St	rfac	e W	ater		_	i To	ip Bla		Samp			e : Ger Z A. HCI	rlyn P			Samp	ler Sign		e :							Pr	oiec	t-spe	ecific (PS) or Batch (B) QC ?
	2. G						7. OI				1°	30A #		+ ice 03 + ice	F. ice (BOX #	3	F. F	itere	d		Be)X #4		Н.	High	1	Box #6 C. CLP 3/90 T. TCLP
ł	3. Le	achi	ite			8	3. W	aste			1			DH + Ice	G. Oth	ISO4 + Ic				U. U	nfilte	ered					M.	Med	ium	S. SW-846
ł	4. Ri		-				. Ot	her						04 + Ice				1						l			LŁ	_OW		W. CWA 600-series
L	5. Sc	# / S	edin	nent	/ SI	udge	<u> </u>				\perp			reserved			100													O. Other
							T	- 1	Т		18	lox #1	Box #2	Box #3	Box #4	Box #6			_		_		_	_		_	_			
							ı	Ŋ	1							100,00					- 1	1		[Π				
	Sar	mal	- IF				1	2002	-1		1		ĺ	Hered / Unfiltered	g			0	Ι.				_		3					
(9 cha					M 1 177	• •	1	اي			1		\$	5	Expected Conc.	1	\$	Use for Lab QC (MS or DUP)	П				13	l		_				Pamada (O
,		J, J		~!!!!	MII	•,	1	*			1	. ×	Preservativ	8	<u>₹</u>	8	of Bother	125			8	8	Motals M.		₽	O&G / TPH				Remarks / Comments (see Notes 2 & 3)
								ğ		Ē		Matrix	8	1	💆	Method	NO.	45 A	8	svoc	1 8 G	Herbicide	倒	Cyamide	TOC /	9		- 1		(See 140165 2 & 3)
		\bot	Ι,		Ţ,	4	J			ı K	-			-	 " -			⊃ €	۶	5	ijā	┤ᡱ	14	Š,	일	8	_		\bot	
		+	1.	Ŧ	Ŧ,	Ŧ	7	7	+		₹-		 								\perp		۲				- [1	-	
	MW	+ -	#	- -	11	4	-1-	213	-	4.5	+	5	R	u		5	7		4	1	H						7		\top	
55-	MY	1	1	-	14		1	213	<u> </u>	1:5	7 (5	F	u		{	7		u	, ,		1	1.1			+	+	+	+	
							T	1			T					-			- 1	╁	+	╁╌	\		-1-	-	_	_	_	
5	~	4	1	a	ļ	1	,		1.		上	^	 							+		↓_			\dashv	_				
		, [Ŧ	Ť.	₽	f	Ŧ		+		7	,														-		1		
	7	+-	μ	10	\bot	1	11	43	1	1:2	1	5_	F	Ч	! 1	5	7		4	$\sqrt{1}$	\prod	,	ī		1	1	\top	\top	1	
	MV	1	L	2	<u> -</u>	4	10	43	14	:57	-	5	(F)	W		(2		पी	1	1	4		7	4	╅	+	+	╁	
S\$ 1	4 N	ſΝ	10	-	0	1	17	43	11:	3:36	. <	2	F	u		5	7		4	+	 	╁┤	++	+	#	4	-	+		
\$5-M	MI.	λı.	40	IM	L.	辶	V	23	12	.32	-	7	F	u		· ·				!-	+!	\vdash		4	4	_	4	1		
	+	ť	╁			+	1	7	۳		 	_	<u> </u>	7		-2-1	-1		4	Щ	11	\sqcup	1	\perp	\coprod					
		<u>_</u>	<u></u>	1_	Ц	Т.			_	<u>:</u>	<u></u>														'			T	T	
Clients Spe													 .																	Temperature ろうしゃつ
Lab: Receiv				ondi	tior	_	_		D	escri			ns, If any																	Tomperatures 23 -4 47C
11 Relinquis			_	4	~	++	_ -	<u>ک</u>			Date	e: [k	3/2	#2 Relinq	uished B	y: (Sig)				Da	rte:			3 R	elinq	uish	ed P	v: (S	ia)	
Company Na			h Ki	<u>مرا د</u> عر	4		X	<u>'nil</u>	<u>, </u>			ie: 1		Company						Tir	ne;				pany			٠٠٠	-6/_	Date:
11 Received		19)		<u>ع</u>	ر ک	* _	<u>سر</u>	مير	~	-				12 Receiv		lg)				Da	te:				celv	_		Sig)	_	Time:
Company Na	me;		_(_	4	<u>(</u>	<u> </u>	en	<u>~</u>		Tim	10:	000	Company	Name:					Tir	ne:				pany			. .		Data:



501 Madison Avenue Cary, NC 27513

CHAIN	-OF-CUSTODY RECORD	No. 068031	
Project Name :	Client Address :	Point-of-Contact :	
80 DRS	Malcolm Pirnie	Tony Pace	
Carrier: UPS	701 Town Center Drive, #600	Telephone No. 757-873-8700	<u>'</u>

Time:

Airbill No. : 1-800-833-5097 Newport News, VA 23606 Sampling complete? You (see Note 1) Sampler Name: Gerlyn Perlas Sampler Signature : Project-specific (PS) or Batch (B) QC ? BOX #1 1. Surface Water 6. Trip Blank BOX #2 A. HCI + Ice F. Ice Only BOX #3 F. Filtered Box #4 H. High Box #6 C. CLP 3/90 T. TCLP 2. Ground Water 7. Oil B. HNO3 + Ice G. Other U. Unfiltered M. Medium S. SW-846 3. Leachate 8. Waste C. NaOH + Ice H. NaHSO4 + Ice L. Low W. CWA 600-series 4. Rinsate 9. Other D. H2SO4 + Ice I. ZnAc+NaOH + Ice O. Other 5. Soll / Sediment / Sludge E. Unpreserved Box #1 Box #2 Box #3 Box #4 Box #6 200 9 ဗ္ဗ Sample ID Remarks / Comments (9 characters maximum) (see Notes 2 & 3) see remarks/communik for Sumple ID SAMPLE ID 55-MW10-4 F SS-MWIOMS/MSD-41 F u 55-MW 10 M5/MSD-4 F S SS - MW10 - 1 F 1 SS-MNIGHS/MSD-1 BLANK Clients Special Instructions: Temperature 3.5 % Lab: Received in Good Condition? Yor N Describe Problems, if any: #1 Relinquished By: (Sig) 42 Relinquished By: (Sig) Date: #3 Reiinquished By: (Sig) Date: Company Name: Company Name: Time: Company Name: Time: #1 Received By: (Sig) Date: (7/4/6 7/#2 Received By: (Sig) Date: #3 Received By: (Sig) Date: Company Name: Time: 1000 Company Name: Time: Company Name:

CHAIN-OF-CUSTODY DECORD

Note (1): If "N" lab will hold samples to await remainder of project-maximizing batch size and minimizing QC ratio; if "Y" lab will begin processing batches now. Note (2): Samples stored 60 days after date report mailed at no extra charge. Note (3): All lab copies of data destroyed after three years.

•			CO	MPUCH COMM	EM a I)ivi L I	son of L RECEIV	ibe IN	erty Ana IG LOG	lyt	tical				P	age	1	of	1	
Client: Malcolm Picnie			Rec	'd Date:	11110	2			PS/RFA		.63									
Project:			Cou	rier: UPS	>									Instr	uctions					
Quote: (2) 18/2			Air	oill No. 🔔				1	~~ ~~		TAL		CL						0	
Login No. 028/2				2 2 3C	0 048		<u> </u>	,	a +40										\mathfrak{C}	_
Subcontract? Y / N			 \	Z 2 20	078		21 <u>41</u> 29	1	008										-	_
TAT Verbal Report 19										-			- ,							_
							į													
Cooler Rec'd By: 1.3. Bally]	Γ						p	aran	neters							
Sample Login By: _ at ale	mel	-		-			Trala	\overline{I}	100015		Dine	-	Encon	00				<u> </u>		
Temperature: 2.5 °C			^	1	100		1 impr	1	Metals		Svoc Pest PCB		217011	-				- 1		
Cyanide Samples checked for sulfide &	chlori	ne?_Y /	(NA)]			i				rest									
Phenol Samples checked for chloring	Y	(NA)			Ì		ľ				PUD							- 1		
Received in Good Condition?	/ N			1	ŀ						Ì									- 1
If no, explain:																1		[ľ
			 	3								i		- 1						1
CompuChem Client ID	Q	Matrix	Date 20	Military	No. &	P H	No.&	р Н	No. &	p H	No. &	p H	No. &	р Н	No. &	P	No. &	Tp	No. &	T p
ID	<u> </u>			Time	Туре		1	1	Type		Турс	1 1	Турс		Туре	<u> </u> H	Type	P H	Турс	11
02812 14 55-MW09-0		50	12/10	10-15	1-402:V	dr.	1-402 14		1-4026	4	802	ar	3-59	dm						
1 15 SS-MW09-			1	10:20	7				7		1		7							1
16 55-MW09-4		,	1/	0.25	17		-1/		1/		1	П	1	1-1		\dagger				+
70 33 11,001 9		V	7	1000	- 	+	70	\exists	Y		·V		-V		· · · · · · · · · · · · · · · · · · ·					╁┷┤
			7	 		=										1-1				
		 		ļ	_	-						1		1						Ш
			/	:																
	<u> </u>	L		:		'				Ì				1	_					
			1	:		Τ	1									1		\Box		1
			1	:		1	10	2						+		1-1		1-1		+
		 	/	:	12	11	11	7						1-1		+		\vdash		+
		 	 	0.1	1.12	4								╁╌╂		-		+1	•	
		ļ 	 	XXXX	,	.		_		_										
			/	سبسر																
							İ	Ì		l										П
			/	;													.,			
		1	1	:				1						+		+		++		+
	_	 	 	:		\vdash	 	\dashv		-		-		╁		+		┼┤		-
		-	 			┼						╁	-			-	,,,	\sqcup		
		ļ 	' ,	L		 		-		-				1	 -	\sqcup				
		<u> </u>	ļ <u>'</u>	;		-		4		_		\sqcup		\sqcup						
		<u> </u>	/	:		\perp										\bigsqcup				
	_			· · ·		\vdash		┪		\dashv		\vdash								口
Container Type Abbreviations: 40ml.(40ml.	vial) /	Al.(Amber I,	ner) PL(Pla	stic Liter) 30	00P(500mL	Plast	ic) 250P(2:	50m	I. Plastic)	071	HER							11 - (v)	28/01:dee	

COMPUCHEM a Division of Liberty Analytical

_	1		
Page		of	_1

	•				COMM	ERCIA	L I	RECEIV	VIN	G LOG							Ŭ			- h	-
Client: Na	colon firme	-		R	ec'd Date: \2	eliilo	12	-	P	PS/RFA	12	63									
Project:	<u> </u>			C	ourier: 12	5								Lab I	nstr	uctions					
Quote: Q 2	8/2			A	ishill No				1		Ra	rate									
Login No. 5 2	FIL				译 33	098	Ø	4129	0	08										\sim	_
Subcontract?	Y / 🖎		•		13 ax	098	٥	14141	2	798											_
TAT Verbal	Report 14																				_
									L												_
	y: 13. Briley							T- :		 /		. Р	aran	eters							
Sample Login	Ву:					VOA		1200C		Mexa	9								l		
Temperature:	ع، ط،کے		0 17 1/		_	'		SVOC PCB PEST		• , -									Ì		
Cyanide Samp	es checked for sulfide & c s checked for chlorine?	hloru	ne Y	NA)	 {	,		0551													
Phenol Sample	s checked for chlorine?	Υ	NA					1760			- 1							j	- 1		
	ood Condition? (Y)//	N				ļ					- 1	1					ļ	ł	- 1		
If no, explain:						1]									1	ĺ	ļ		
						ĺ		1		[1	i	ł		
CompuChem	Client 1D	ī	Matrix	Date	Military	No. &	P	No. &	P	No. &	Р	No. &	T	No. &	P	No. &		No. &		No. &	Tp
ID	Chen	QC	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Date 2002	Time	Type	P H	Type	P H	Туре	Р Н	Турс	P H	Туре	P H	Туре	p H	Турс	p H	Турс	P H
(221)	EK-55-121002	+-	WH	12/10		3-40	1	H-AL		PL	73		\vdash		\Box		1-1	l	†		+
525/2 3	P 12 22 19109-	┼	NA	100	10-20			1110	\vdash	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		} _	╁╌┤				┼╌┤		┼╌╁		
+ 9	Trip Blank	<u> </u>			i	1-40m	₩_		-	ļ <u> </u>									$oxed{oxed}$		
				/			_											L			
				1	:	1		1											H		1
							+		1	<u> </u>					П				\vdash		+
		┼	 	 ;	:	 	╁	 	+				-				FI				-
		-	ļ. 		 	ļ. .	╀	 	<u> </u>								\sqcup		<u> </u>		
		<u> </u>	<u> </u>		:	<u> </u>	1.		١.									<u> </u>	1 1		
		Ì		1	:	ļ	1)	V1//			\neg										\top
		1		1	:	12-1	17	1//	-				1				\vdash		1		+-
				 ,	100	14	-	-	┼		-		\vdash				┼╌┤		╁╌╁		
		_			AMU	1	\downarrow	ļ	_										Ш		<u> </u>
		1						İ	1				i I					İ			
		1		11	-																
		+			- - :	 	+	 	 				1				 				+
		ļ					+	ļ	-						\vdash		\vdash		\longrightarrow		
		<u> </u>	<u> </u>	···········	:	<u> </u>	1_	<u> </u>	1					·	Ш		Ш				1
				/	:													 J			1
<u> </u>		1	1	1	:		T					· *· · · · · · · · · · · · · · · · · · ·			口		\Box		厂		
		+	 	1	:	<u> </u>	1		+				+		╁┼┤		 		-		+-1
	/	+	 	',			+	 	┼—		}		\vdash		\vdash		\vdash				
			ļ	/	:		1_		<u> </u>										\Box		
				- /			+-										T				
	 	+-	†	7		 	+-	1	1	 			1 1				+		 -		+

Container Type Abbreviations: 40mL(40mL vial) AL(Amber Liter) PL(Plastic Liter) 500P(500mL Plastic) 250P(250mL Plastic) OTHER_

CHAIN-	OF-CL	JSTODY	RECORD
--------	-------	--------	--------

No neange

	(C	N	ſP	U	(Ή	F.	M	.				<u>Un</u>	W114-4	JF -C	$\overline{}$				<u>Ur</u>	(U								140	. 000033		
	a d	ivisio								'	-rojeci	ject Name : Client Address : 80 DRS Malcolm Pirnie													_	Point-of-Contact :							
							enu			-				1163													4	Tony Pace					
					NC			•			Carrier		UPS	··-				Town						-	60	0	_		•		lo.:757-873-8700		
					833						Airbill I							port 1		_				_		Sampling complete? Opr N (see Note 1							
100¥ #								_			Sample				Perlas		Samp	ier Sign		e : .	<u>1) u</u>	yeg	V	_			Project-specific (PS) or Batch (B) QC ? PS						
BOX#	1	1. \$							rip Bla	nK		BOX	#2 A, H		F. Ice (•		BOX #	3		iter			-	Box	#4		H. HI	_		Box #6 C. CLP 3/90	T. TCLP	
1		2. G 3. L				ĸ		7. 0						103 + Ice				}		U . 1	Unfil	tered	i	- 1				VI. M		um	S, SW-846		
ŀ		4. F			l				Vaste Other					IOH + Ice	H. NAH B. J. ZnAd	1804 + Id								Į			•	Lo	₩		W. CWA 60		
ļ					ilme	nt /	Sludg							preserved		THEORY	r ICB	1													O. Other		
	_						<u> </u>	_										<u> </u>	_		_	_				_					<u> </u>		
	cha		ımş			imu	ım)		Date: Year, 2002		Тже	Metrix	Preservative ox	Fixered / Unfiltered	Expected Conc. xog	Wethod Box #6	No. of Bottles	Use for Lab QC (MS or DUP)	VOA	SVOC	Pesticide	PCB	Herbioide	3 4	Cymride	TOGUZE PH	O&G / TPH				Remarks / Co		
83	Ł	Μ	W	Ø	9	1	Ø	ŗ	12/1	01	0:15	5	F	u		S	7		4	1	1	I	T	Y	T				1	T	SVUC PEST / PI	CB	
1 [1		:							Ĭ				П				T		1			all in on		
SS	-	2	٧	S	0		1		17.1	7	U : 20	5	F	u	1	S	7	 	In	1			+	,	+	+	+	+	\dashv	+	211111		
100	-	•••		9	7	-			184	4	0:20	1 -	- '-	14		10	1	ļ	14		14		4	1	4	4	4		4	\perp			
\sqcup	_					_	Ц		1	_	<u>:</u>	 						<u> </u>													TOC & PH it	one bottle	
5 8	-	M	W	Ø	9	-	4		121	M	0:25	5	F	U		S	17		14	1	l			1		1							
									1		:															1	\top	1	\top	1	3 encoras per	rsamole.	
re.		2	8		۵,	ix			12/1	7		(-	E	- U		+-			上	 			\dashv	+	+	\dagger	十	+	+	+-		Starry C	
F	1,	Ŀ	-	_				\blacksquare		4		1	7	+~		10	 '-		╄	_		-			4	4	_	\perp	1		<u> </u>		
oxdot]]		1		;								1							-			ı				
									1		:												T		1				T	\top			
									1		:							1					+	\top	1	1	7	\top	\dagger	_			
Client	s Sp	ecia	line	tru	ction	18:											<u> </u>	 	1			_									Temperature _	3,3 ℃	
Lab: F	lece	ived	in G	00	d Co	ondi	tion'	7 Y	or N		Descri	be Prot	dems, If	any:				~													, omporature		
#1 Re	inqu	shec	i By:					_	W.	_					Inquished						Dat	e:		#	IS R	elino	uish	ed B	y: (Sig)		Date:	
Comp	any M	lame):	1	100	<u>し</u> (W)	M	pir	nii					ny Name:						Tim	ė;		\neg			Nar			N. Lago		Time:	
#1 Re	celve	d By	: (SI	g) \	7	ŭ	الملك	13	1.0	<u> </u>	LA.	Date:	211	W W2 Red	elved By:	(Sig)					Date	e:		#	3 R	ecel	ved (3y: (S	Sig)			Date:	
Comp											T	Time:	0.10	a Acomp	ny Name:						Tim	e:		_			/ Nar					Time:	

1. Surface Water

2. Ground Water

3. Leachate

4. Rinsale

BOX #1

Company Name:

501 Madison Avenue Cary, NC 27513 1-800-833-5097

cai Corp.	Project Name :	Client Address : Ma colm firmit, Inc.	No. 067059
ie	Carrier: UPS Airbill No.: Sampler Name: Gerlyo T. Perlas	Newfort NEWS, VA 23606	Tory PACE Telephone No.: 757 873-8709 Sampling complete? Your (seewide 1)
6. Trip Blank 7. Oil 8. Waste 9. Otherge	BOX #2 A. HCY+ Ice F. Ice Only B. HN03+ Ice G. Other C. NaOH + Ice H. NaHSO4+ Ic D. H2SO4+ Ice I. ZnAc+NaOH E. Unpreserved		Project-specific (PS) or Batch (B) QC ? PS H. High M. Medium L. Low Box #6 C. CLP 3/90 T. TCLP S. SW-846 W. CWA 600-series O. Other

Date:

#3 Received By: (Sig)

Date:

Time:

5. Soll / Sediment / Sludge		E. Unpreserved												VIII	W. CWA 600-series O. Other	
S	Sair	Box #	1 Box #2	8	30x #4 Box #6					T		T	T			
Sample ID (9 characters maximum)	88	Time	Preservative	illered / Unfile	Expected Conc.	No. of Bottles	(MS or DUP)	200	Pesticide	rbicide	Mercury	anide C/TOX	G/TPH			Remarks / Comments (see Notes 2 & 3)
ER-SS-121802	12/18/12	:30 4	FA	u	\$ 3	3		∑ §		5 =	34	<u> </u>	ő		-	Paris de la Company
ER-58-121892	12/10/12	:30 4		u		45		$\overline{}$		_	\vdash	+	\bot		44	on them. Of 12/11/02
ER- 85- 1218 42	12/18/12	:30 4	В	11	3	77	_	4	4 4	-		+	\bot	-	\coprod	
	1	:		~	- 12			+	-	+	4	\downarrow	\perp	_	$\bot \downarrow$	Received lot the
TRIP BLANK	12/10	6	F	u				+	-	+	-	_	Ш		$\downarrow \downarrow$	1255-1202 On
	/			<u> </u>				H	- -	+-+	_	+			$\bot \bot$	It. GFB 12/1/02
	1 :							-		╂┼	-	4	-	4	\sqcup	
	1							\vdash		╁┼	\dashv	+	\sqcup		-	
	/ :				-		+	╁┼	-	+	+	\perp		-		
	/ :							-	-	$\vdash \vdash$	-	\perp		4		
Clients Special Instructions:			<u>-</u>													
ab: Received in Good Condition? Y		cribe Probier														Temperature C C °C
1 Relinquished By: (Sig) Herful Company Name: Malconsh		Date: 2			ed By: (Sig)				ate:		#3	Retir		rd Ric	(Sig)	
1 Received By: (Sig) HILLIAM		Time: /5		mpany Narr	ne:			Ţ	ime:		- 1		y Nam		(310)	Date:
- Company	uning	Dake:	110/112	Received B	ly: (Sig)			O	ate:		T					i ime;

Company Name: Time: Note (1): If "N" lab will hold samples to await remainder of project-maximizing batch size and minimizing QC ratio; if "Y" lab will begin processing batches now. Company Name: Note (3): All lab copies of data destroyed after three years.

Time:

FORM 2 SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q2812

Level: (low/med) LOW

SAMPLE NO. (DBF) # (DCE) # (TOL) # (BFB) # OUT ===================================		CLIENT	SMC1	SMC2	SMC3	SMC4	TOT
01 VBLKCR		SAMPLE NO.	(DBF)#			:	
02 VCRLCS		=========	======	=====	=====		
03 SSMW07-0 82 81 90 111 0 04 SSMW07-1 83 85 90 110 0 05 SSMW07-4 89 91 98 124 0 06 SSMW08-1 90 95 97 125 0 07 SSMW08-4 88 94 96 128 0 08 SSMW11D-4 96 110 86 90 0 0 09 SSMW10-0 84 94 92 134* 1 10 SSMW10-0MSD 88 85 97 136* 1 12 VBLKCX 115 118 123 116 0 13 VCXLCS 111 122 116 114 0 14 SSMW08-0 106 123 115 117 0 15 SSMW11-1 107 121 112 117 0 16 SSMW11D-1 105 121 114 118 0 18 SSMW11D-4RE 109 130 123 122 0 19 SSMW10D-4 102 118 104 109 0 21 VBLKGS 100 92 96 113 0 0 22 VGTLCS 101 93 89 112 0 23 SS-MW09-0 108 114 83 108 0 24 SS-MW09-1 113 116 84 106 0 25 SS-MW09-4 112 116 84 106 0 26 27	01	VBLKCR	99	90	108	124	i oi
04 SSMW07-1 83 85 90 110 0 05 SSMW07-4 89 91 98 124 0 06 SSMW08-1 90 95 97 125 0 07 SSMW08-4 88 94 96 128 0 08 SSMW11D-4 96 110 86 90 0 0 09 SSMW10-0 84 94 92 134* 1 10 SSMW10-0MSD 88 85 97 136* 1 12 VBLKCX 115 118 123 116 0 13 VCXLCS 111 122 116 114 0 14 SSMW08-0 106 123 115 117 0 15 SSMW11-1 107 121 112 117 0 16 SSMW11D-1 105 121 114 118 0 17 SSMW11D-4RE 109 130 123 122 0 19 SSMW10D-4 102 118 104 109 0 21 VBLKGS 100 92 96 113 0 22 VGTLCS 101 93 89 112 0 23 SS-MW09-0 108 114 83 108 0 24 SS-MW09-1 113 116 84 106 0 26 27	02	VCRLCS	95	98	94	96	: !
05 SSMW07-4 89 91 98 124 0 06 SSMW08-1 90 95 97 125 0 07 SSMW08-4 88 94 96 128 0 08 SSMW11D-4 96 110 86 90 0 0 09 SSMW10-0 84 94 92 134* 1 10 SSMW10-0MSD 88 85 97 136* 1 12 VBLKCX 115 118 123 116 0 13 VCXLCS 111 122 116 114 0 14 SSMW08-0 106 123 115 117 0 15 SSMW11-1 107 121 112 117 0 16 SSMW11-4 104 122 113 109 0 17 SSMW11D-1 105 121 114 118 0 18 SSMW11D-4RE 109 130 123 122 0 19 SSMW10D-4 102 118 104 109 0 21 VBLKGS 100 92 96 113 0 22 VGTLCS 101 93 89 112 0 23 SS-MW09-0 108 114 83 108 0 24 SS-MW09-1 113 116 84 106 0 26 27	03	SSMW07-0	82	81	90	111	l o
06 SSMW08-1 90 95 97 125 0 07 SSMW08-4 88 94 96 128 0 08 SSMW11D-4 96 110 86 90 0 0 09 SSMW10-0 84 94 92 134* 1 10 SSMW10-0MSD 88 85 97 136* 1 12 VBLKCX 115 118 123 116 0 13 VCXLCS 111 122 116 114 0 14 SSMW08-0 106 123 115 117 0 15 SSMW11-1 107 121 112 117 0 16 SSMW11-4 104 122 113 109 0 17 SSMW11D-1 105 121 114 118 0 18 SSMW11D-4RE 109 130 123 122 0 19 SSMW10-4 107 128 113 119 0 20 SSMW10D-4 102 118 104 109 0 21 VBLKGS 100 92 96 113 0 22 VGTLCS 101 93 89 112 0 23 SS-MW09-0 108 114 83 108 0 24 SS-MW09-1 113 116 84 106 0 26 27	04	SSMW07-1	83	85	90	110	i oi
07 SSMW08-4 88 94 96 128 0 08 SSMW11D-4 96 110 86 90 0 09 SSMW10-0 84 94 92 134* 1 10 SSMW10-0MS 81 79 86 130 0 11 SSMW10-0MSD 88 85 97 136* 1 12 VBLKCX 115 118 123 116 0 13 VCXLCS 111 122 116 114 0 14 SSMW08-0 106 123 115 117 0 15 SSMW11-1 107 121 112 117 0 16 SSMW11-4 104 122 113 109 0 17 SSMW11D-1 105 121 114 118 0 18 SSMW11D-4RE 109 130 123 122 0 19 SSMW10-4 107 128 113 119 0 20 SSMW10D-4 102 118 104 109 0 21 VBLKGS 100 92 96 113 0 22 VGTLCS 101 93 89 112 0 23 SS-MW09-0 108 114 83 108 0 24 SS-MW09-1 113 116 84 106 0 25 SS-MW09-4 112 116 84 106 0	05	SSMW07-4	89	91	98	124	i oi
08 SSMW11D-4 96 110 86 90 0 0 0 0 SSMW10-0 84 94 92 134* 1 10 SSMW10-0MS 81 79 86 130 0 0 11 SSMW10-0MSD 88 85 97 136* 1 12 VBLKCX 115 118 123 116 0 13 VCXLCS 111 122 116 114 0 14 SSMW08-0 106 123 115 117 0 15 SSMW11-1 107 121 112 117 0 16 SSMW11-4 104 122 113 109 0 17 SSMW11D-1 105 121 114 118 0 18 SSMW11D-4RE 109 130 123 122 0 19 SSMW10D-4 107 128 113 119 0 20 SSMW10D-4 102 118 104 109 0 21 VBLKGS 100 92 96 113 0 22 VGTLCS 101 93 89 112 0 23 SS-MW09-0 108 114 83 108 0 24 SS-MW09-1 113 116 84 106 0 26 27	06	SSMW08-1	90	95	97	125	0
09 SSMW10-0	07	SSMW08-4	88	94	96	128	0
10 SSMW10-0MS 81 79 86 130 0 11 SSMW10-0MSD 88 85 97 136* 1 12 VBLKCX 115 118 123 116 0 13 VCXLCS 111 122 116 114 0 14 SSMW08-0 106 123 115 117 0 15 SSMW11-1 107 121 112 117 0 16 SSMW11-4 104 122 113 109 0 17 SSMW11D-1 105 121 114 118 0 18 SSMW11D-4RE 109 130 123 122 0 19 SSMW10-4 107 128 113 119 0 20 SSMW10D-4 102 118 104 109 0 21 VBLKGS 100 92 96 113 0 22 VGTLCS 101 93 89 112 0 23 SS-MW09-0 108 114 83 108 0 24 SS-MW09-1 113 116 84 106 0 25 SS-MW09-4 112 116 84 106 0 26 27	08	SSMW11D-4	96	110	86	90	oj
11 SSMW10-0MSD 88 85 97 136* 1 12 VBLKCX 115 118 123 116 0 13 VCXLCS 111 122 116 114 0 14 SSMW08-0 106 123 115 117 0 15 SSMW11-1 107 121 112 117 0 16 SSMW11-4 104 122 113 109 0 17 SSMW11D-1 105 121 114 118 0 18 SSMW11D-4RE 109 130 123 122 0 19 SSMW10-4 107 128 113 119 0 20 SSMW10D-4 102 118 104 109 0 21 VBLKGS 100 92 96 113 0 22 VGTLCS 101 93 89 112 0 23 SS-MW09-0 108 114 83 108 0 24 SS-MW09-1 113 116 84 106 0 25 SS-MW09-4 112 116 84 106 0 26 27	09	SSMW10-0	84	94	92	134*	1
12 VBLKCX	10	SSMW10-0MS	81	79	86	130	0
13 VCXLCS	11	SSMW10-0MSD	88	85	97	136*	1
14 SSMW08-0 106 123 115 117 0 15 SSMW11-1 107 121 112 117 0 16 SSMW11-4 104 122 113 109 0 17 SSMW11D-1 105 121 114 118 0 18 SSMW11D-4RE 109 130 123 122 0 19 SSMW10D-4 107 128 113 119 0 20 SSMW10D-4 102 118 104 109 0 21 VBLKGS 100 92 96 113 0 22 VGTLCS 101 93 89 112 0 23 SS-MW09-0 108 114 83 108 0 24 SS-MW09-1 113 116 84 106 0 25 SS-MW09-4 112 116 84 106 0 26 27	12	VBLKCX	115	118	123	116	0
15 SSMW11-1 107 121 112 117 0 16 SSMW11-4 104 122 113 109 0 17 SSMW11D-1 105 121 114 118 0 18 SSMW11D-4RE 109 130 123 122 0 19 SSMW10D-4 107 128 113 119 0 20 SSMW10D-4 102 118 104 109 0 21 VBLKGS 100 92 96 113 0 22 VGTLCS 101 93 89 112 0 23 SS-MW09-0 108 114 83 108 0 24 SS-MW09-1 113 116 84 106 0 25 SS-MW09-4 112 116 84 106 0 26 27	13	VCXLCS	111	122	116	114	0
16 SSMW11-4 104 122 113 109 0 17 SSMW11D-1 105 121 114 118 0 18 SSMW11D-4RE 109 130 123 122 0 19 SSMW10D-4 107 128 113 119 0 20 SSMW10D-4 102 118 104 109 0 21 VBLKGS 100 92 96 113 0 22 VGTLCS 101 93 89 112 0 23 SS-MW09-0 108 114 83 108 0 24 SS-MW09-1 113 116 84 106 0 25 SS-MW09-4 112 116 84 106 0 26 27	14	SSMW08-0	106	123	115	117	o
17 SSMW11D-1 105 121 114 118 0 18 SSMW11D-4RE 109 130 123 122 0 19 SSMW10D-4 107 128 113 119 0 20 SSMW10D-4 102 118 104 109 0 21 VBLKGS 100 92 96 113 0 22 VGTLCS 101 93 89 112 0 23 SS-MW09-0 108 114 83 108 0 24 SS-MW09-1 113 116 84 106 0 25 SS-MW09-4 112 116 84 106 0 26 27	15	SSMW11-1	107	121	112	117	o
18 SSMW11D-4RE 109 130 123 122 0 19 SSMW10-4 107 128 113 119 0 20 SSMW10D-4 102 118 104 109 0 21 VBLKGS 100 92 96 113 0 22 VGTLCS 101 93 89 112 0 23 SS-MW09-0 108 114 83 108 0 24 SS-MW09-1 113 116 84 106 0 25 SS-MW09-4 112 116 84 106 0 26 27	16	SSMW11-4	104	122	113	109	oj
19 SSMW10-4 107 128 113 119 0 20 SSMW10D-4 102 118 104 109 0 21 VBLKGS 100 92 96 113 0 22 VGTLCS 101 93 89 112 0 23 SS-MW09-0 108 114 83 108 0 24 SS-MW09-1 113 116 84 106 0 25 SS-MW09-4 112 116 84 106 0 26 27	17	SSMW11D-1	105	121	114	118	0
20 SSMW10D-4 102 118 104 109 0 21 VBLKGS 100 92 96 113 0 22 VGTLCS 101 93 89 112 0 23 SS-MW09-0 108 114 83 108 0 24 SS-MW09-1 113 116 84 106 0 25 SS-MW09-4 112 116 84 106 0 26 27	18	SSMW11D-4RE	109	130	123	122	οi
21 VBLKGS 100 92 96 113 0 22 VGTLCS 101 93 89 112 0 23 SS-MW09-0 108 114 83 108 0 24 SS-MW09-1 113 116 84 106 0 25 SS-MW09-4 112 116 84 106 0 26 27	19	SSMW10-4	107	128	113	119	o j
22 VGTLCS 101 93 89 112 0 23 SS-MW09-0 108 114 83 108 0 24 SS-MW09-1 113 116 84 106 0 25 SS-MW09-4 112 116 84 106 0 26 27	20	SSMW10D-4	102	118	104	109	o j
23 SS-MW09-0 108 114 83 108 0 24 SS-MW09-1 113 116 84 106 0 25 SS-MW09-4 112 116 84 106 0 26 27	21	VBLKGS	100	92	96	113	0
24 SS-MW09-1 113 116 84 106 0 25 SS-MW09-4 112 116 84 106 0 26 27	22	VGTLCS	101	93	89	112	0
25 SS-MW09-4 112 116 84 106 0 26 27	23	SS-MW09-0	108	114	83	108	0
26	24	SS-MW09-1	113	116	84	106	0
27	25	SS-MW09-4	112	116	84	106	ol
	26			Ì	i		j
28	27						
	28						

QC LIMITS

SMC1 (DBF) = Dibromofluoromethane (71-141)

SMC2 (DCE) = 1,2-Dichloroethane-d4 (70-139)SMC3 (TOL) = Toluene-d8 (72-123)

SMC4 (BFB) = Bromofluorobenzene (65-131)

Column to be used to flag recovery values

- * Values outside of contract required QC limits
- D System Monitoring Compound diluted out

page 1 of 1

FORM II VOA

FORM 4 VOLATILE METHOD BLANK SUMMARY

Lab Name: COMPUCHEM

Contract: 8260B

VBLKCR

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: Q2812

Lab File ID: WG21849-1A59

Lab Sample ID: WG21849-1

Date Analyzed: 12/10/02

Time Analyzed: 1620

GC Column: ZB624 ID: 0.32 (mm)

Heated Purge: (Y/N) Y

Instrument ID: 5972HP59

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

		1 1 1 1		_
	CAMPLE	LAB	LAB	TIME
	SAMPLE NO.	SAMPLE ID	FILE ID	ANALYZED
	==========	==========	=======================================	THURST ZED
01	VCRLCS	WG21849-4	WG21849-4RA5	_========
02	SSMW07-0	Q2812-1		1800
03:	SSMW07-1	Q2812-2	Q2812-1A59	1830
04	SSMW07-4		Q2812-2A59	1856
05		Q2812-3	Q2812-3A59	1921
	SSMW08-1	Q2812-5	Q2812-5A59	2011
06	SSMW08-4	Q2812-6	Q2812-6A59	2036
07	SSMW11D-4	Q2812-10	Q2812-10A59	
08	SSMW10-0	Q2812-11	02012-10A39	2216
09	SSMW10-0MS	WG21849-6	Q2812-11A59	2241
10	SSMW10-0MSD	WG21849-7	WG21849-6A59	0021
11	DEFINITO ONSD	WG21849-/	WG21849-7A59	0046
12			_	
13				
14				
15	_			
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29	 -			
30	 .			
201				

COMMENTS:	

page 1 of 1

VBLKCX

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY

Case No.: SAS No.:

SDG No.: Q2812

Lab File ID: WG21851-1R2A59

Lab Sample ID: WG21851-1

Date Analyzed: 12/11/02

Time Analyzed: 1223

GC Column: ZB624 ID: 0.32 (mm)

Heated Purge: (Y/N) Y

Instrument ID: 5972HP59

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
	=========		*******	ANALIZED
01	VCXLCS	WG21851-4	WG21851-4RA5	1424
02	SSMW08-0	Q2812-4	Q2812-4RA59	1501
03	SSMW11-1	Q2812-7	Q2812-7RA59	1526
04	SSMW11-4	Q2812-8	Q2812-8RA59	1551
05 06	SSMW11D-1 SSMW11D-4RE	Q2812-9	Q2812-9RA59	1617
07	SSMW11D-4RE SSMW10-4	Q2812-10 Q2812-12	Q2812-10RA59 Q2812-12RA59	1642
08	SSMW10D-4	02812-12	Q2812-12RA59 Q2812-13RA59	1707 1732
09	BBIM10B 1	Q2012-13	Q2012-13KA39	1/34
10				
11				
12				
13	 			
14 15				
16				·
17				
18	·			
19				
20				
21				
22				
23 24				
25				
26		·		
27				
28				
29				
30				

page 1 of 1

FORM 4 VOLATILE METHOD BLANK SUMMARY

			VBLKGS
Lab Name:	COMPUCHEM	Contract: 8260B	
			I I

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: Q2812

Lab File ID: WG22043-1RA52_TC4 Lab Sample ID: WG22043-1

Date Analyzed: 12/20/02 Time Analyzed: 1421

GC Column: EQUITY624 ID: 0.53 (mm) Heated Purge: (Y/N) Y

Instrument ID: F50052

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

			 	
		LAB	LAB	TIME
	SAMPLE NO.	SAMPLE ID	FILE ID	
	J		LIDE ID	ANALYZED
	_========			
01	VGTLCS	WG22043-5	WG22043-5RA5	1503
02	SS-MW09-0	Q2812-14	Q2812-14A52	
03		02012-14	Q2012-14A52	2005
	SS-MW09-1	Q2812-15	Q2812-15A52	2038
04	SS-MW09-4	Q2812-16	Q2812-16B52	2110
05	İ	-	2 10202	2110
06				
07				
08				
09				
				ļ
10				
11				
12				
13				
14				
15				
16				
				1
17				
18				
19				
20				
21	ł			
22				
23				
				
24				
25				
26				
27				
28				
29				
30				
30		<u></u>		

COMMENTS:

page 1 of 1

CLIENT SAMPLE NO.

VBLKCR

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: WG21849-1

Sample wt/vol:

5.00(g/mL) **G**

Lab File ID: WG21849-1A59

Level: (low/med) LOW

Date Received: ____

Date Analyzed: 12/10/02

% Moisture: not dec.

GC Column: ZB624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: ____(ul

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

0

	*	
75-71-8Dichlorodifluoromethane	5	U
74-87-3Chloromethane	5	υ
75-01-4Vinyl Chloride	Š	lΰ
74-83-9Bromomethane	5 5	Ιŭ
75-00-3Chloroethane	5	lΰ
75-69-4Trichlorofluoromethane	2	J
75-35-41,1-Dichloroethene	2 5	U
75-15-0Carbon disulfide	0.6	J
$76-13-11,1,2-trichloro-\overline{1,2,2-triflu}$	5	ប្រ
67-64-1Acetone	4	J
75-09-2Methylene Chloride	2	J
156-60-5trans-1,2-Dichloroethene	0.7	
1634-04-4Methyl-tert-butyl ether	5	U
75-34-31,1-Dichloroethane	5	Ti .
156-59-2cis-1,2-Dichloroethene	5	נו
78-93-32-butanone	13	Ü
67-66-3Chloroform		บ็
71-55-61,1,1-Trichloroethane	5	บ
56-23-5Carbon Tetrachloride	5 =	l n
71-43-2Benzene	5 5 5 5 5	Ü
107-0.6-21,2-Dichloroethane	3 [บ็
79-01-6Trichloroethene	0.5	J
78-87-51,2-Dichloropropane	5	บ
75-27-4Bromodichloromethane	5	Ü
10061-01-5cis-1,3-Dichloropropene	5	Ü
108-10-14-Methyl-2-pentanone	13	
108-88-3Toluene		J
10061-02-6trans-1,3-Dichloropropene	1 5	
79-00-51,1,2-Trichloroethane	5 5	u u
127-18-4Tetrachloroethene	0.5	J
591-78-62-hexanone	13	IJ
124-48-1Dibromochloromethane	5	บ
106-93-41,2-Dibromoethane	5 5	_
1/2 DIDIOMOCCHANE	5	U
FORM I VOA		

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM		Method: 8260B	İ	VE	BLKCR	
Lab Code: LIBRTY (Case No.:	SAS No.:	SDG	No.: Ç	2812	_'
Matrix: (soil/water)	SOIL	Lab Sai	mple ID:	WG218	349-1	
Sample wt/vol:	5.00(g/mL) G	Lab Fi	le ID:	WG218	49-1 A 59	
Level: (low/med)	LOW	Date Re	eceived:			
% Moisture: not dec.		Date Aı	nalyzed:	12/10	/02	
GC Column: ZB624	ID: 0.32 (mm)	Dilutio	on Facto	r: 1.0	1	
Soil Extract Volume:	(uL)	Soil A	liquot V	olume:		_(ul
CAS NO.	COMPOUND	CONCENTRATION (ug/L or ug/l	N UNITS: Kg) UG/K	G	Q	
100-41-4 100-42-5 75-25-2 98-82-8 79-34-5 541-73-1 106-46-7 95-50-1 96-12-8 120-82-1 1330-20-7	ChlorobenzeneEthylbenzeneStyreneStyreneIsopropyl Benze1,1,2,2-Tetrach1,3-Dichlorober1,4-Dichlorober1,2-Dichlorober1,2-Dibromo-3-C1,2,4-TrichloroXylene (total)Methyl acetateCyclohexane	ene nloroethane nzene nzene nzene nzene chloropropane obenzene		555555555	ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט	

CLIENT SAMPLE NO.

VBLKCX

ab Name: COMPUCHEM	Method: 8260B
Lab Code: LIBRTY Case No.:	SAS No.: SDG No.: Q2812
Matrix: (soil/water) SOIL	Lab Sample ID: WG21851-1
Sample wt/vol: 5.00(g/mL) G	Lab File ID: WG21851-1R2A59
Level: (low/med) LOW	Date Received:
% Moisture: not dec	Date Analyzed: 12/11/02
GC Column: ZB624 ID: 0.32 (mm)	Dilution Factor: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Volume:(uI
CAS NO. COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q
75 71 8Dichlorodifluo	promethane 0.6 J

	75-71-8Dichlorodifluoromethane	0.6		
	74-87-3Chloromethane	_ 1	U	
	75-01-4Vinyl Chloride		U	ı
	74-83-9Bromomethane		U	1
	75-00-3Chloroethane	5	U	ĺ
	75-69-4Trichlorofluoromethane	5 5	U	ĺ
	75-35-41,1-Dichloroethene	5	U	1
	75-35-4	5	U	ł
	75-15-0Carbon disulfide	1.	J	ı
	76-13-11,1,2-trichloro-1,2,2-triflu	13	_	ĺ
	67-64-1Acetone	2	Ĵ	
	75-09-2Methylene Chloride	5	U	
	156-60-5trans-1,2-Dichloroethene	5	Ü	
	1634-04-4Methyl-tert-butyl ether	5	_	1
l	75-34-31,1-Dichloroethane	5		1
	156-59-2cis-1,2-Dichloroethene	_	_	
ĺ	78-93- 3 2-butanone	13		
ļ	67-66-3Chloroform	5	U	
١	71-55-61,1,1-Trichloroethane	5	U	l
l	56-23-5Carbon Tetrachloride	5	U	
	71-43-2Benzene	5	U	1
l	107-06-21,2-Dichloroethane	5	U	l
l	79-01-6Trichloroethene	5	U	
ł	78-87-51,2-Dichloropropane	5	U	1
l	75_27_4Bromodichloromethane	5 5	U	
١	10061-01-5cis-1,3-Dichloropropene		U	İ
١	108-10-14-Methyl-2-pentanone	13	U	
Ì	108-88-3Toluene	0.8	J	
Į	10061-02-6trans-1,3-Dichloropropene	5	U	
ł	79-00-51,1,2-Trichloroethane	5	U	
١	127-18-4Tetrachloroethene	5	U	
ļ	591-78-62-hexanone	13	U	
1	124-48-1Dibromochloromethane	5	ט	1
١	106-93-41,2-Dibromoethane	5	U	
1	100-93-41,2-DIDIOMOCCHARC	-		
1		1	1	

FORM I VOA

CLIENT SAMPLE NO.

Lab Name: COMPU	СНЕМ	Method: 8260B	3	VBLKCX	
Lab Code: LIBRT	Y Case No.:	SAS No.:	SDG N	o.: Q2812	
Matrix: (soil/w	ater) SOIL		umple ID:		
Sample wt/vol:	5.00(g/mL) G			WG21851-1R	2A59
Level: (low/m	ed) LOW		eceived:		
% Moisture: not	dec.		nalyzed: 1		
GC Column: ZB624	1 ID: 0.32 (mm)		on Factor:	•	
Soil Extract Vol	lume:(uL)	Soil A	liquot Vol	lume:	(uL
CAS NO.	COMPOUND	CONCENTRATION (ug/L or ug/N	N UNITS:		
100-41-4- 100-42-5- 75-25-2 98-82-8 79-34-5 541-73-1- 106-46-7- 95-50-1 96-12-8 120-82-1- 1330-20-7 79-20-9 110-82-7-	ChlorobenzeneEthylbenzeneStyrene	nzene nchloroethane penzene penzene -Chloropropane probenzene)		55555555555555555555555555555555555555	

CLIENT SAMPLE NO.

VBLKGS

Method: 8260B Lab Name: COMPUCHEM

Lab Code: LIBRTY Case No.: SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: WG22043-1

Sample wt/vol: 5.00(g/mL) G

Lab File ID: WG22043-1RA52 TC4

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 12/20/02

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: ____(uI

CONCENTRATION UNITS:

CAS NO. COMPOUND

(ug/L or ug/Kg) UG/KG

Q

		
75-71-8Dichlorodifluoromethane	5	ប
74-87-3Chloromethane		Ū
75-01-4Vinyl Chloride	5	U
74-83-9Bromomethane	5	U
75-00-3Chloroethane	5 5 5	U
75-69-4Trichlorofluoromethane	5	Ü
75-35-41,1-Dichloroethene	5	ับ
75-15-0Carbon disulfide	5	IJ
76-13-11,1,2-trichloro-1,2,2-triflu	5	Ū
67-64-1Acetone	· •	Ū
75-09-2Methylene Chloride	5	Ũ
156-60-5trans-1,2-Dichloroethene		Ŭ
1634-04-4Methyl-tert-butyl ether	5	IJ
75-34-31,1-Dichloroethane	5 5 5	U
156-59-2cis-1,2-Dichloroethene	5	U
78-93-32-butanone	13	Ü
67-66-3Chloroform	5	U
71-55-61,1,1-Trichloroethane	5	IJ
56-23-5Carbon Tetrachloride	5	Ū
71-43-2Benzene		Ü
107-06-21,2-Dichloroethane	5 5	Ü
79-01-6Trichloroethene	5	Ŭ
78-87-51,2-Dichloropropane	5	Ü
75-27-4Bromodichloromethane	5	Ü
10061-01-5cis-1,3-Dichloropropene	5 5 5	U
108-10-14-Methyl-2-pentanone	13	Ü
108-88-3Toluene	2	J
10061-02-6trans-1,3-Dichloropropene	5	U
79-00-51,1,2-Trichloroethane	5	U
127-18-4Tetrachloroethene	5 5	IJ
591-78-62-hexanone		U
124-48-1Dibromochloromethane	5	Ŭ
106-93-41,2-Dibromoethane	ລຸ 5	IJ
TUO-33-41, Z-DIDIOMOECHARE	D	Ų
FORM I VOA		

CLIENT SAMPLE NO.

Lab Na	me: COMPUCHEM		Method: 8260E	3	VB1	LKGS	
Lab Co	de: LIBRTY	Case No.:	SAS No.:	SDG	No.: Q	2812	
Matrix	: (soil/water)	SOIL	Lab Sa	umple ID:	WG2204	43-1	
Sample	wt/vol:	5.00(g/mL) G	Lab Fi	le ID:	WG2204	13-1R A 52	TC4
Level:	(low/med)	LOW		deceived:		_	_
% Mois	ture: not dec.		Date A	nalyzed:	12/20/	02	
GC Col	umn: EQUITY624	ID: 0.53 (mm)	Diluti	on Facto	r: 1.0		
Soil E	xtract Volume:	(uL)	Soil A	liquot V	olume:		(uI
	CAS NO.	COMPOUND	CONCENTRATIO (ug/L or ug/		G	Q	
	100-41-4	BromoformIsopropyl Benze1,1,2,2-Tetrach1,3-Dichloroben1,4-Dichloroben1,2-Dichloroben1,2-Dibromo-3-C1,2,4-TrichloroXylene (total)Methyl acetate	neloroethanezene		5 U U U U U U U U U U U U U U U U U U U		20 E

FORM 8 VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY

TY Case No.:

SAS No.:

SDG No.: Q2812

Lab File ID (Standard): GV021210A59

Date Analyzed: 12/10/02

Instrument ID: 5972HP59

Time Analyzed: 1424

GC Column: ZB624

ID: 0.32 (mm)

Heated Purge: (Y/N) Y

						703 /BOD	
1		IS1(FBZ)		IS2 (CBZ)		IS3 (DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
			======	=======	======	=======================================	======
	12 HOUR STD	818023	8.98	534973	12.46	282961	14.46
		1636046	9.48	1069946	12.96	565922	14.96
	UPPER LIMIT			267486	11.96	141480	13.96
	LOWER LIMIT	409012	8.48	207400	11.70	141100	
	==========	=========	======	=======================================	=== ===		
'	CLIENT						
	SAMPLE NO.						
	525555555	========		=======================================	======	=======	======
01	VBLKCR	787816	8.98	476915	12.47	250080	14.47
02	VCRLCS	745226	8.98	491442	12.47	262914	14.47
0.3	SSMW07-0	655544	8.98	401988	12.47	199791	14.47
		728853	8.98	440192	12.47	225392	14.47
04	SSMW07-1	I .	8.98	394073	12.47	175306	14.47
05	SSMW07-4	676416		364111	12.46	176731	14.47
06	SSMW08-1	604441	8.98		12.47	168729	14.47
07	SSMW08-4	583235	8.98	355332			
08	SSMW11D-4	419325	8.99	167043*	12.47	52123*	14.47
09	SSMW10-0	589117	8.99	340681	12.47	133364*	14.47
10	SSMW10-0MS	728036	8.98	444447	12.47	182672	14.47
11	SSMW10-0MSD	681752	8.98	405766	12.47	166837	14.47
12	BBHW10 0110B			1			
13							
14							
15							
16							
17							
18							
19						Í	
20						l	
_ 0	I	I	1				

IS1 (FBZ) = Fluorobenzene

page 1 of 1

FORM VIII VOA

IS2 (CBZ) = Chlorobenzene-d5

IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT RT LOWER LIMIT = - 0.50 minutes of internal standard RT

[#] Column used to flag values outside QC limits with an asterisk.

^{*} Values outside of QC limits.

FORM 8 VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q2812

Lab File ID (Standard): CS021211A59

Date Analyzed: 12/11/02

Instrument ID: 5972HP59

Time Analyzed: 0953

GC Column: ZB624

ID: 0.32 (mm)

Heated Purge: (Y/N) Y

	IS1 (FBZ)	D	IS2 (CBZ)		IS3 (DCB)	
=========	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD UPPER LIMIT LOWER LIMIT	730363 1460726 365182	8.98 9.48 8.48	485754 971508 242877	12.47 12.97 11.97	264302 528604 132151	14.47 14.97 13.97
CLIENT SAMPLE NO.		İ				=====
01 VBLKCX 02 VCXLCS 03 SSMW08-0 04 SSMW11-1 05 SSMW11-4 06 SSMW11D-1 07 SSMW11D-4RE 08 SSMW10-4 10 11 12 13 14 15 16 17 18 19 20	596104 616498 585905 547162 541487 490224 447426 480503 540250	8.99 8.99 8.98 8.99 8.98 8.98 8.99	366994 389666 352195 328009 319904 284674 222178* 281133 348177	12.48 12.47 12.48 12.47 12.47 12.47 12.47 12.47	191324 200564 178673 160128 163421 136397 91387* 135420 174764	====== 14.47 14.47 14.47 14.47 14.47 14.47 14.47

IS1 (FBZ) = Fluorobenzene

IS2 (CBZ) = Chlorobenzene-d5 IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits. page 1 of 1

FORM VIII VOA

A division of Liberty Analytical Corporation 501 MADISON AVE. CARY, NC 27513 (919) 379-4100

SDG NARRATIVE

SDG # Q2812 PROTOCOL : SW-846 METHOD : 8270C

SAMPLE IDENTIFICATIONS:

SSMW07-0 SSMW07-1 SSMW07-4 SSMW08-0 SSMW08-1 SSMW08-4 SS-MW09-0 SS-MW09-1 SS-MW09-4 SSMW10-0 SSMW10-4 SSMW11D-1 SSMW11D-1 SSMW11D-4

The sixteen (16) soil samples listed above were received intact, properly refrigerated, with proper documentation, in sealed shipping containers, on December 4 and 11, 2002. The samples were scheduled for the requested analyses of the semivolatile fractions. SW-846, 3rd Edition, Update 3, Sonication extraction (Method 3550B) and Method 8270C were used to prepare and analyze these samples, with the exceptions and/or additions requested by the client.

The client identification for SSMW10D-4 appears as SS-MW10MS/MSD-4 on the chain-of-custody document. Sample SSMW10-0 also had a duplicate sample identified as MS/MSD. The duplicate matrix spikes were prepared from SSMW10-0.

All pertinent Quality Assurance Notices are included in the narrative section, and all pertinent Laboratory Notices are included in the sample data sections.

SEMIVOLATILE

Extraction and analysis holding time requirements were met for all of these samples. The percent moisture values for the samples raged fro 3% to 20%.

Due to the limited amount of sample received, SS-MW09-0, SS-MW09-1 and SS-MW09-4 were extracted using 15.0 grams of raw sample instead of the method-specified amount of 30.0 grams. The extracts were concentrated to final volumes half that of the method-specified volume, and therefore no effective dilutions were performed during the extraction procedures.

One to sixteen semivolatile target analytes were identified above the Quantitation Limits (QL) in five of these samples. These analytes were bis(2-ethylhexyl)phthalate, pyrene, naphthalene, 2-methylnaphthalene, acenaphthylene, fluorene, phenanthrene, anthracene, fluoranthene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, dibenzo(a,h)anthracene and benzo(g,h,i)perylene.

Four to twenty Tentatively Identified Compounds (TICs) were detected in the samples. These TICs were assessed as unknowns, substituted naphthalenes, alkanes, siloxanes, amides,

carboxylic acids, PAHs, sulfur and ketones. In the analysis of SSMW08-1, one or more TICs were assessed as TCL analytes. However, the retention times of these TICs did not compare well to the analyte retention times in the associated Continuing Calibration standard. In accordance with the EPA CLP Statement of Work, Document number OLM04.2, TICs at or above 85% purity should be assessed as the compound [page D-46/SVOA; section 11.1.2.5.6].

Due to the appearance of the extract, SSMW08-0 was initially analyzed at a 3x dilution.

Manual quantitations were performed on one or more of the process files associated with the samples in this SDG. The reasons have been coded with explanations provided in the notice included in the narrative section of the SDG.

QC SUMMARY

All decafluorotriphenylphosphine (DFTPP) abundance criteria were met for tunes associated to this SDG. Tailing factor criteria were met for pentachlorophenol and benzidine. The breakdown criterion was met for DDT. These three compounds have been added to the DFTPP solution and analyzed together. Overall QC criteria were met for all initial and continuing calibration standards associated to this SDG.

The surrogates met recovery criteria in the analyses of these samples. The internal standards met response and retention time criteria in the analyses of these samples.

SSMW10-0 was used as the original to prepare the duplicate matrix spikes. The duplicate matrix spikes met accuracy and precision criteria, with exceptions. The recovery of acenaphthene was flagged as an outlier in the MS and the recoveries of acenaphthene and pyrene were flagged as outliers in the MSD. The associated Laboratory Control Samples (LCSs) met overall accuracy criteria. The recoveries of acenaphthene and pyrene were flagged as outliers in SACLCS.

The associated method blanks met all quality control criteria.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted electronically has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Patricia B. Hopkins
Data Analyst II

22 December 2002

Laboratory Notice

Calibration Date(s): 17-DEC-2002 18:42 17-DEC-2002 21:37

Instrument ID: 5972hp64

An initial calibration was analyzed by Method 8270C. Per the ethodology, all compounds are to meet a Percent Relative Standard eviation (%RSD) limit of no more than 15%. Additional calibration ptions are provided in the method when the RSD exceeds 15%. CompuChem as chosen to apply the option of determining the mean RSD values or all analytes in the initial calibration.

When there are analytes with %RSDs greater than the limit, proof of alibration linearity can be shown if the average of all compounds in he initial calibration meet the same 15% limit. Based on Method 8270C, ec. 7.3.7.1, and Method 8000B, Section 7.5.1.2, we are providing a list f the compounds which failed to meet the limit, and their associated RSDs. Finally, the average of all %RSDs from all compounds in the initial alibration is shown, confirming the usability of the initial calibration nd any data that follows it.

ompound Name	RSD
	====
yridine	20.6
trazine	86.1
enzidine	37.0

verage %RSD for all compounds in the Initial Calibration: 5.6 %

Data Reviewer/ID:	W	/2391
Date:	12/19/02	

Laboratory Notice

Calibration Date(s): 25-NOV-2002 20:41

25-NOV-2002 23:37

Instrument ID: 5972hp64

An initial calibration was analyzed by Method 8270C. Per the sthodology, all compounds are to meet a Percent Relative Standard eviation (%RSD) limit of no more than 15%. Additional calibration of tions are provided in the method when the RSD exceeds 15%. CompuChem is chosen to apply the option of determining the mean RSD values or all analytes in the initial calibration.

When there are analytes with %RSDs greater than the limit, proof of alibration linearity can be shown if the average of all compounds in the initial calibration meet the same 15% limit. Based on Method 8270C, etc. 7.3.7.1, and Method 8000B, Section 7.5.1.2, we are providing a list the compounds which failed to meet the limit, and their associated RSDs. Finally, the average of all %RSDs from all compounds in the initial alibration is shown, confirming the usability of the initial calibration and any data that follows it.

ompound Name	RSD
- 	====
enzaldehyde	18.8
4-Dimetĥylphenol	17.4
exachlorocyclopentadiene	17.6
-Chlorophenyl-phenylether	18.7
Nitrosodiphenylamine	15.8
razine	69.7
enzidine	23.4

verage %RSD for all compounds in the Initial Calibration: 10.0 %

Data Reviewer/ID:	RKMead	<u>/ 2421</u>
Date:	12/4/2	

SBLKAC

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: Q2812

Lab File ID: WG21775-1J2A64

Lab Sample ID: WG21775-1

Instrument ID: 5972HP64

Date Extracted: 12/04/02

Matrix: (soil/water) SOIL

Date Analyzed: 12/10/02

Level: (low/med) LOW

Time Analyzed: 1317

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

		LAB	LAB	DATE
	SAMPLE NO.	SAMPLE ID	FILE ID	ANALYZED
			==========	========
01	SACLCS	WG21775-2	WG21775-2JA6	12/10/02
02	SSMW07-0	02812-1	Q2812-1A64	12/10/02
03	SSMW07-1	Q2812-2	Q2812-2A64	12/10/02
04	SSMW07-4	Q2812-3	Q2812-3A64	12/10/02
05	SSMW07-4	Q2812-4	Q2812-4DA64	12/10/02
06	SSMW08-1	Q2812-5	Q2812-5A64	12/10/02
07	SSMW08-1	02812-6	Q2812-6A64	12/10/02
08	SSMW11-4	02812-8	Q2812-8A64	12/10/02
09	SSMW11-4 SSMW11D-1	02812-9	02812-9A64	
				12/10/02
10	SSMW11D-4	Q2812-10	Q2812-10A64	12/10/02
11	SSMW10-0	Q2812-11	Q2812-11A64	12/10/02
12	· -	WG21775-3	WG21775-3A64	12/10/02
13	SSMW10-0MSD	WG21775-4	WG21775-4A64	12/10/02
14	SSMW11-1	Q2812-7	Q2812-7JB64	12/11/02
15	SSMW10-4	Q2812-12	Q2812-12JB64	12/11/02
16	SSMW10D-4	Q2812-13	Q2812-13JA64	12/11/02
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30.				
		· ——————	·	I ————— I

	COMMENTS:

page 1 of 1

FORM IV SV

Method: 8270C

SBLKAC

Lab Name: COMPUCHEM

Lab Code: LIBRTY Case No.: SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: WG21775-1

Sample wt/vol:

30.0 (g/mL) G

Lab File ID: WG21775-1J2A64

Level: (low/med) LOW

Date Received:

% Moisture: 0 decanted: (Y/N) N Date Extracted:12/04/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/10/02

Injection Volume: 1.0(uL)

GPC Cleanup: (Y/N) N pH: ___

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.		CENTRATION UNITS: /L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	330	U
108-95-2	Phenol		ΙŬ
111-44-4	Bis(2-chloroethyl)eth	ier 330	Ιΰ
95-57-8	2-Chlorophenol	330	Ü
95-48-7	2-Methylphenol	220	Ü
108-60-1	2,2'-oxybis(1-Chlorop	propane) 330	Ιŭ
98 - 86 - 2	Acetophenone	330	Ū
106-44-5	4-Methylphenol	220	Ü
621-64-7	N-Nitroso-di-N-propy	DMING DOG	Ü
67-72-1	Hexachloroethane	330	Ü
- 70-95-3 	Nifrobenzene	330	Ü
78-59-1	Isophorone	330	Ŭ
88-75-5	2-Nitrophenol	330	Ŭ
105-67-9	2,4-Dimethylphenol		Ü
111-91-1	Bis(2-chloroethoxy)me	thane330	Ü
120-03-2	/.4-Dichloropheno!	330	Ü
91-20-3	Naphthalene	330	Ιŭ
106-47-8	4-Chloroaniline		บั
87-68-3	Hexachlorobutadiene	330	Ü
105-60-2	Caprolactam	220	Ŭ
59-50-7	4-Chloro-3-methylphen	0] 330	Ü
91-57-6	2-Methylnaphthalene		บ็
//-4/-4	Hexachlorocyclopentad	1000	Ü
88-06-2	2.4.6-Trichlorophenol		Ū
90-90-4	2.4.5-"richlorophenol	330	Ü
92-52-4	1.1'-Biphenyl	330	Ŭ
91-58-7	2-Chloronaphthalene	330	Ü
88-74-4	2-Nitroanilina	660	Ŭ
131-11-3	Dimethylphthalato		Ü
606-20-2	2.6-Dinitrotoluana	330	Ü
200-30-8 - -	Acenaphthylene	330	บ็
99-09-2	3-Nitroaniline		Ü
83-32-9	Acenaphthene	330	Ü
	FORM I SV		82

SBLKAC

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: WG21775-1

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: WG21775-1J2A64

Date Received: ____

Level: (low/med) LOW

CONCENTRATION UNITS:

% Moisture: 0 decanted: (Y/N) N

Date Extracted:12/04/02

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 12/10/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
51-28-5	2,4-Dinitrophenol		1700	U
100-02-7	4-Nitrophenol		660	U
121-14-2	2,4-Dinitrotoluen	e	330	U
	Dibenzofuran		330	U
84-66-2	Diethylphthalate_		330	U
7005-72-3	4-Chlorophenyl-ph	enylether	330	U
86 - 73-7	Fluorene		330	U
	4-Nitroaniline		660	U
534 - 52-1	4,6-Dinitro-2-met	hylphenol	660	U
86-30-6	N-Nitrosodiphenyl	amine (1)	330	U
101-55-3	4-Bromophenyl-phe	nylether —	330	U
118-74-1	Hexachlorobenzene		330	U
	Atrazine		330	U
87-86-5 -	Pentachlorophenol		330	U
85-01-8	Phenanthrene		34	J
	Anthracene		330	lυ
86-74-8- -	Carbazole		330	lυ
84-74-2	Di-n-butylphthala	te	330	Ū
206-44-0	Fluoranthene		260	J
129-00-0	Pyrene		180	J
85 - 68-7	Butylbenzylphthal	ate	330	U
91-94-1	3,3'-Dichlorobenz	idine	330	U
	bis(2-ethylhexyl)		330	Ū
56-55-3	Benzo (a) anthracen	e —	140	J
218-01-9	Chrysene		170	Ĵ
	Di-n-octylphthala	te	330	Ū
205-99-2	Benzo(b)fluoranth	en e	72	J
207-08-9	Benzo(k)fluoranth	ene	58	J
50-32-8	Benzo(a)pyrene		33	J
193-39-5	Indeno(1,2,3-cd)p	vrene	330	Ū
53-70-3	Dibenzo(a,h)anthr	acene	330	Ιŭ
191-24-2	Benzo(g,h,i)peryl	ene	330	Ŭ
•	\J,, -, F, F			

FORM I SV

8270C

FORM 1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

TIDD COM COM	1
Method: 8270C	SBLKAC

Lab Name: COMPUCHEM

Lab Code: LIBRTY Case No.: SAS No.:

SDG No.: Q2812

Matrix: (soil/water) SOIL

Lab Sample ID: WG21775-1

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: WG21775-1J2A64

Date Received:

Level: (low/med) LOW

Date Extracted:12/04/02

% Moisture: ____ decanted: (Y/N)__

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 12/10/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 6

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	
1. 2. 3. 4. 5. 6.	UNKNOWN (BC) UNKNOWN (BC) UNKNOWN (BC) UNKNOWN (BC) UNKNOWN (BC) UNKNOWN (BC)	5.39 5.66 6.84 6.91 7.26 7.65	300 330 180 580 210 270	J J
8. 9. 0. 1. 2.				
5. 6. 7. 8. 9.				
1. 2. 3. 4.				
6. 7. 8.				
0				

SBLKCJ

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: Q2812

Lab File ID: WG21883-1JA64 Lab Sample ID: WG21883-1

Instrument ID: 5972HP64 Date Extracted: 12/11/02

Matrix: (soil/water) SOIL Date Analyzed: 12/18/02

Level: (low/med) LOW Time Analyzed: 2028

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01 02 03 04	SCJLCS SS-MW09-0 SS-MW09-1 SS-MW09-4	WG21883-2 Q2812-14 Q2812-15 Q2812-16	WG21883-2A64 Q2812-14A64 Q2812-15A64 Q2812-16A64	12/18/02 12/18/02 12/18/02 12/18/02
05 06 07 08				
09 10 11 12 13				
14 15 16 17				
18 19 20 21				
22 23 24 25				
26 27 28				
29 30				

COMMENTS:	
	

page 1 of 1

FORM IV SV

FORM 1 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: Q2812

Matrix: (soil/water) SOIL Lab Sample ID: WG21883-1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: WG21883-1JA64

Level: (low/med) LOW Date Received:

% Moisture: 0 decanted: (Y/N) N Date Extracted:12/11/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/18/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

Injection volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO.	CONCENTRATION COMPOUND (ug/L or ug/K		Q
100-52-7	Benzaldehyde	330	U
108-95-2		330	U
111-44-4	Bis(2-chloroethyl)ether	330	U
95-57-8	2-Chlorophenol	330	ע
95-48-7	2-Methylphenol	330	ן ט
108-60-1	2,2'-oxybis(1- Chloropropane)	330	ע
98-86-2	Acetophenone	330	ט
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-di-N-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	Ū
	Bis(2-chloroethoxy)methane	330	U
	2,4-Dichlorophenol	330	Ū
	Naphthalene	330	Ū
	4-ChloroaniTine	330	lŭ l
	Hexachlorobutadiene	330	Ü
105-60-2	Caprolactam	330	ΙŪ
59-50-7	4-Chloro-3-methylphenol	330	Ŭ
91-57-6	2-Methylnaphthalene	330	Ū
77-47-4	Hexachlorocyclopentadiene	330	ט
88-06-2	2,4,6-Trichlorophenol	330	Ü
95-95-4	2,4,5-Trichlorophenol	330	Ü
92-52-4	1,1'-Biphenyl	330	Ŭ
91-58-7	2-Chloronaphthalene	330	Ŭ
88-74-4	2-Nitroaniline	660	Ŭ
131-11-3	Dimethylphthalate	330	Ü
606-20-2	2,6-Dinitrotoluene	330	ŭ
208-96-8	Acenaphthylene	330	lŭ l
99-09-2	3-Nitroaniline	660	l ü
83-32-9	Acenaphthene	330	lŭ l
		550	
	FORM I SV		82700

FORM 1 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: COMPUCHEM Method: 8270C SBLKCJ

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: Q2812

Matrix: (soil/water) SOIL Lab Sample ID: WG21883-1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: WG21883-1JA64

Level: (low/med) LOW Date Received:

% Moisture: 0 decanted: (Y/N) N Date Extracted:12/11/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/18/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

injection volume: 1.0 (ub) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG

51-28-5	2,4-Dinitrophenol	1700	U
	4-Nitrophenol	660	U
121-14-2	2,4-Dinitrotoluene	330	U
132-64-9	Dibenzofuran	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
	Fluorene	330	U
	4-Nitroaniline	660	U
534-52-1	4,6-Dinitro-2-methylphenol	660	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
	Atrazine	330	U
87-86-5	Pentachlorophenol	330	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
117-81-7	bis(2-ethylhexyl)Phthalate	330	U
56-55-3 	Benzo(a) anthracene	330	U
218-01-9 	Chrysene	330	U
117-84-0	Di-n-octylphthalate	330	U
205 - 99-2	Benzo(b) fluoranthene	330	U
207-08 - 9	Benzo(k)fluoranthene	330	lυ
50-32-8- 	Benzo(a)pyrene	330	U
193 - 39-5	Indeno(1,2,3-cd)pyrene	330	Ū
53-70-3	Dibenzo(a,h)anthracene	330	Ū
191-2 4 -2 	Benzo(g,h,i)perylene	330	Ū

FORM I SV

8270C

FORM 1 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

	121(11111111111111111111111111111111111		SBLKCJ
Lab Name:	COMPUCHEM	Method: 8270C	

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: Q2812

Matrix: (soil/water) SOIL Lab Sample ID: WG21883-1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: WG21883-1JA64

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:12/11/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/18/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CONCENTRATION UNITS: Number TICs found: 7 (ug/L or ug/Kg) ug/Kg

6. 10544-50-0 SULFUR, MOL. (S8) 7. 19047-85-9 PHOSPHONIC ACID, DIOCTADECYL 8. 9. 10. 11.	5.31 5.61 6.89 7.63 10.82 13.98 17.55	340 760 270 140 160 200 170	J J NJ
12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25.			
26. 27. 28. 29. 30.			

FORM I SV-TIC

FORM 5 SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: Q2812

Lab File ID: DF021210B64

DFTPP Injection Date: 12/10/02

Instrument ID: 5972HP64

DFTPP Injection Time: 2149

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51 68 69 70 127 197 198 199 275 365 441 442 443	30.0 - 80.0% of mass 198 Less than 2.0% of mass 69 Mass 69 relative abundance Less than 2.0% of mass 69 25.0 - 75.0% of mass 198 Less than 1.0% of mass 198 Base Peak, 100% relative abundance 5.0 to 9.0% of mass 198 10.0 - 30.0% of mass 198 Greater than 0.75% of mass 198 Present, but less than mass 443 40.0 - 110.0% of mass 198 15.0 - 24.0% of mass 442	44.2 0.1 (0.2)1 59.6 0.3 (0.4)1 41.1 0.2 100.0 6.3 20.9 2.91 11.9 84.5 15.4 (18.3)2
' —. '	1-Value is % mass 69 2-Value is % mass	442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01 02 03 04 05	SSTD080 SSMW11-1 SSMW10-4	SSTD080 Q2812-7 Q2812-12	HH021210B64 Q2812-7JB64 Q2812-12JB64	12/10/02 12/11/02 12/11/02	2245 0842 0917
06 07					
08					
09 10					
11					
12 13					
14					
15 16					
17					
18 19					
20					
21 22					
page 1 of 1					

FORM V SV

FORM 7B SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM

Contract: 8270C

Lab Code: LIBRTY Case No.:

SAS No.: SDG No.: Q2812

Instrument ID: 5972HP64 Calibration Date: 12/10/02 Time: 2245

Lab File ID: HH021210B64

Init. Calib. Date(s): 11/25/02 11/25/02

Init. Calib. Times: 2041 2337

GC Column: RTX-5MS ID: 0.32 (mm)

		RRF80.000		l		
COMPOUND	RRF OR	OR	MIN	%D OR	MAX %D OR	CURV
	AMOUNT	TRUOMA	RRF	%DRIFT	%DRIFT	TYPE
**********	-	1	=====	======		====
N-Nitrosodiphenylamine	_ 0.5380000	0.4894140	0.01	-9.03	20.00	AVRG
4-Bromophenyl-phenylether	- '	0.3021985	0.01	7.54	50.00	AVRG
Hexachlorobenzene	_ 0.3340000	0.3466839	0.01	3.80	50.00	AVRG
Atrazine	_ 0.1360000	0.0439843	0.01	-67.66	50.00	AVRG
Pentachlorophenol	0.1940000	0.1893741	0.05	-2.38	20.00	AVRG
Phenanthrene	1.1760000	1.1620256	0.01	-1.19	50.00	AVRG
Anthracene	1.1690000	1.2236479	0.01	4.67	50.00	AVRG
Carbazole	1.0480000	1.0283960	0.01	-1.87	50.00	AVRG
Di-n-butylphthalate	1.4730000	1.7530456	0.01	19.01	50.00	AVRG
Fluoranthene	1.3470000	1.4565602	0.01	8.13	20.00	AVRG
Pyrene	1.3850000	1.4257478	0.01	2.94	50.00	AVRG
Butylbenzylphthalate	0.6860000	0.7934586	0.01	15.66	50.00	AVRG
3,3'-Dichlorobenzidine	0.4470000	0.4549664	0.01	1.78		•
bis(2-ethylhexyl)Phthalate	0.8820000	0.9987223	0.01	13.23	50.00	AVRG
Benzo(a) anthracene	1.2920000	1.3448715	0.01	4.09	•	!
Chrysene	1.1240000	1.1734410	0.01	4.40	1	!
Di-n-octylphthalate	2.1280000	2.4580663		!	I .	
Benzo(b)fluoranthene	1.7930000	2.1035716	0.01	17.32		
Benzo(k)fluoranthene	1.7300000	1.5053318	1	-12.99		•
Benzo (a) pyrene	1.5360000	1.5537237	•	1.15	!	1
Indeno(1,2,3-cd)pyrene	1.4840000	1.7577786		18.45		!
Dibenzo(a,h)anthracene		1.5971277		13.51		•
Benzo(g,h,i)perylene		1.6117436	0.01	13.02	50.00	•
	- ;	=======			========	
2-Fluorophenol		1.5078525	0.01	-4.75	•	•
Phenol-d5	1.8140000	!	0.01			,
Nitrobenzene-d5	0.5440000	!	0.01			
2-Fluorobiphenyl	- !	1.3772466	0.01			!
2,4,6-Tribromophenol	0.3780000	•				
Terphenyl-d14	- !				!	
rerpneny1-d14_	1.0500000	1.0567551	0.01	0.64	50.00	AV:

age 2 of 2

FORM VII SV

FORM 5 SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: Q2812

Lab File ID: DF021218A64

DFTPP Injection Date: 12/18/02

Instrument ID: 5972HP64

DFTPP Injection Time: 0936

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
===== 51 68 69 70 127 197 198 199 275 365 441 442 443	30.0 - 80.0% of mass 198 Less than 2.0% of mass 69 Mass 69 relative abundance Less than 2.0% of mass 69 25.0 - 75.0% of mass 198 Less than 1.0% of mass 198 Base Peak, 100% relative abundance 5.0 to 9.0% of mass 198 10.0 - 30.0% of mass 198 Greater than 0.75% of mass 198 Present, but less than mass 443 40.0 - 110.0% of mass 198 15.0 - 24.0% of mass 442	45.7 0.0 (0.0)1 60.2 0.2 (0.3)1 43.7 0.0 100.0 6.7 21.3 2.45 10.8 73.1 14.4 (19.7)2
	1-Value is % mass 69 2-Value is % mass	442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

orionia Nasilaka Origan	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01 02 03 04 05 06	SSTD080 SCJLCS SS-MW09-0 SS-MW09-1 SS-MW09-4 SBLKCJ	SSTD080 WG21883-2 Q2812-14 Q2812-15 Q2812-16 WG21883-1	HG021218A64 WG21883-2A64 Q2812-14A64 Q2812-15A64 Q2812-16A64 WG21883-1JA64	12/18/02 12/18/02 12/18/02 12/18/02 12/18/02 12/18/02 12/18/02	0957 1547 1622 1657 1733 2028
07 08 09 10 11 12					
14 15 16					
17 18 19 20					
21 22 page 1 of 1					

FORM V SV

FORM 7B SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM

Contract: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: Q2812

Instrument ID: 5972HP64 Calibration Date: 12/18/02 Time: 0957

Lab File ID: HG021218A64 Init. Calib. Date(s): 12/17/02 12/17/02

Init. Calib. Times: 1842 2137

GC Column: RTX-5MS ID: 0.32 (mm)

NAMOUNT AMOUNT RRF *** *** *** *** *** *** *** *** ***		<u> </u>	RRF80.000				1
N-Nitrosodiphenylamine	COMPOUND	!	OR	MIN	%D OR	MAX &D OR	CURV
N-Nitrosodiphenylamine		AMOUNT	AMOUNT	RRF	*DRIFT	%DRIFT	TYPE
4-Bromophenyl-phenylether			1	1	======	=======	1
4-Bromopnenyl-phenylether	N-Nitrosodiphenylamine				-3.22	20.00	AVRG
Rexachlorobenzene					-5.04	:	•
Attaline					-2.32	1	1
Pentachtrophenol		_ 0.116000 X	0.0336338	0.01	-71.00		
Phenanthrene		0.1850000	0.1651244	0.05	j -10.74		
Anthracene 1.1510000 1.1272239 0.01 -2.06 50.00 AVRG Carbazole 1.0240000 1.0448772 0.01 2.04 50.00 AVRG Di-n-butylphthalate 1.7210000 1.7048417 0.01 -0.94 50.00 AVRG Fluoranthene 1.3760000 1.3690471 0.01 -0.50 20.00 AVRG Pyrene 1.4170000 1.4420494 0.01 1.77 50.00 AVRG Butylbenzylphthalate 0.8000000 0.8027406 0.01 0.34 50.00 AVRG 3,3'-Dichlorobenzidine 0.4430000 0.4586147 0.01 3.52 50.00 AVRG bis (2-ethylhexyl) Phthalate 1.0400000 1.0306035 0.01 -0.90 50.00 AVRG Benzo (a) anthracene 1.3370000 1.3364800 0.01 -0.04 50.00 AVRG Chrysene 1.2040000 1.782510 0.01 -2.14 50.00 AVRG Di-n-octylphthalate 2.5580000 2.5399832 0.01 -0.70 20.00 AVRG Benzo (b) fluoranthene 1.6930000 1.7783411 0.01 5.04 50.00 AVRG Benzo (a) pyrene 1.5570000 1.5526594 0.01 -0.28 20.00 AVRG Benzo (a, h) anthracene 1.4120000 1.5032925 0.01 -1.81 50.00 AVRG Benzo (g, h, i) perylene 1.4410000 1.3710080 0.01 -4.86 50.00 AVRG Benzo (g, h, i) perylene 1.4410000 1.3710080 0.01 -4.86 50.00 AVRG Benzo (g, h, i) perylene 1.4120000 1.7549808 0.01 -2.16 50.00 AVRG C-Fluorophenol 1.7810000 1.7549808 0.01 -2.28 50.00 AVRG C-Fluorobiphenyl 1.5390000 1.5299045 0.01 -0.59 50.00 AVRG C-Fluorobiphenyl 1.5390000 1.5299045 0.01 -0.59 50.00 AVRG C-Fluorophenol 0.4010000 0.4022837 0.01 -0.59 50.00 AVRG C-Friborobiphenyl 1.5390000 1.5299045 0.01 -0.59 50.00 AVRG C-Friborobiphenyl 1.5390000 1.5299045 0.01 -0.59 50.00 AVRG C-Friborobiphenyl 1.5390000 1.5299045 0.01 -0.59 50.00 AVRG C-Friborobiphenyl 1.5390000 1.522837 0.01 0.32 50.00 AVRG C-Friborobiphenyl 1.5390000 1.5229045 0.01 -0.59 50.00 AVRG C-Friborobiphenyl 1.5390000 1.5229045 0.01 -0.59 50.00 AVRG C-Friborobiphenyl 1.5390000 1.522837 0.01		1.1590000	1.1151199	0.01	:		
Carbazole 1.0240000 1.0448772 0.01 2.04 50.00 AVRG Di-n-butylphthalate 1.7210000 1.7048417 0.01 -0.94 50.00 AVRG Fluoranthene 1.3760000 1.3690471 0.01 -0.50 20.00 AVRG Pyrene 1.4170000 1.4420494 0.01 1.77 50.00 AVRG Butylbenzylphthalate 0.8000000 0.8027406 0.01 0.34 50.00 AVRG 3,3'-Dichlorobenzidine 0.4430000 0.4586147 0.01 3.52 50.00 AVRG bis(2-ethylhexyl) Phthalate 1.0400000 1.0306035 0.01 -0.90 50.00 AVRG Benzo (a) anthracene 1.3370000 1.3364800 0.01 -0.04 50.00 AVRG Chrysene 1.2040000 1.1782510 0.01 -2.14 50.00 AVRG Benzo (b) fluoranthene 1.7420000 1.7252572 0.01 -0.96 50.00 AVRG Benzo (k) fluoranthene 1.6930000 1.7783411 0.01 5.04 50.00 AVRG Benzo (a) pyrene 1.5570000 1.5526594 0.01 -0.28 20.00 AVRG Dibenzo (a, h) anthracene 1.4120000 1.4058304 0.01 -0.44 50.00 AVRG Benzo (g, h, i) perylene 1.5310000 1.5302925 0.01 -1.81 50.00 AVRG 2-Fluorophenol 1.3700000 1.3403501 0.01 -2.16 50.00 AVRG 2-Fluorophenol 1.3700000 1.5299045 0.01 -0.59 50.00 AVRG 2-Fluorobiphenyl 1.5390000 1.5299		1.1510000	1.1272239	0.01		!	
D1-n-butylphthalate		1.0240000	1.0448772	0.01	!		
Fluoranthene 1.3760000 1.3690471 0.01 -0.50 20.00 AVRG Pyrene 1.4170000 1.4420494 0.01 1.77 50.00 AVRG Butylbenzylphthalate 0.8000000 0.8027406 0.01 0.34 50.00 AVRG 3,3'-Dichlorobenzidine 0.4430000 0.4586147 0.01 3.52 50.00 AVRG bis (2-ethylhexyl) Phthalate 1.0400000 1.0306035 0.01 -0.90 50.00 AVRG Benzo (a) anthracene 1.3370000 1.3364800 0.01 -0.04 50.00 AVRG Di-n-octylphthalate 2.5580000 2.5399832 0.01 -0.70 20.00 AVRG Di-n-octylphthalate 2.5580000 2.5399832 0.01 -0.70 20.00 AVRG Di-n-octylphthalate 1.7420000 1.7252572 0.01 -0.96 50.00 AVRG Di-n-octylphthalate 1.6930000 1.7783411 0.01 5.04 50.00 AVRG Di-n-octylphthalate 1.6930000 1.7783411 0.01 5.04 50.00 AVRG Di-n-octylphthalate 1.6930000 1.7783411 0.01 5.04 50.00 AVRG Di-n-octylphthalate 1.6930000 1.7783411 0.01 5.04 50.00 AVRG Di-n-octylphthalate 1.6930000 1.7525572 0.01 -0.96 50.00 AVRG Di-n-octylphthalate 1.6930000 1.7525572 0.01 -0.96 50.00 AVRG Di-n-octylphthalate 1.6930000 1.7525572 0.01 -0.28 20.00 AVRG Di-n-octylphthalate 1.6930000 1.5526594 0.01 -0.28 20.00 AVRG Di-n-octylphthalate 1.5570000 1.5526594 0.01 -0.28 20.00 AVRG Di-n-octylphthalate 1.4120000 1.4058304 0.01 -0.44 50.00 AVRG Di-n-octylphthalate 1.4120000 1.4058304 0.01 -0.44 50.00 AVRG Di-n-octylphthalate 1.3700000 1.3710080 0.01 -2.16 50.00 AVRG Di-n-octylphthalate 1.3700000 1.7549808 0.01 -1.46 50.00 AVRG Di-n-octylphthalate 1.5390000 1.5259045 0.01 -0.59 50.00 AVRG Di-n-octylphthalate 1.5390000 1.5259045 0.01 -0.59 50.00 AVRG Di-n-octylphthalate 1.5390000 1.5259045 0.01 -0.59 50.00 AVRG Di-n-octylphthalate 1.5390000 1.5259045 0.01 -0.59 50.00 AVRG Di-n-octylphthalate 1.5390000 1.5259045 0.01 -0.59 50.00 AVRG Di-n-octylphthalate 1.5390000 1.5259045 0.01 -0.59	Di-n-butylphthalate						
Pyrene	Fluoranthene					1 22.00	
Butylbenzylphthalate 0.8000000 0.8027406 0.01 0.34 50.00 AVRG 3,3'-Dichlorobenzidine 0.4430000 0.4586147 0.01 3.52 50.00 AVRG bis (2-ethylhexyl) Phthalate 1.0400000 1.0306035 0.01 -0.90 50.00 AVRG Benzo (a) anthracene 1.3370000 1.3364800 0.01 -0.04 50.00 AVRG Chrysene 1.2040000 1.1782510 0.01 -2.14 50.00 AVRG Di-n-octylphthalate 2.5580000 2.5399832 0.01 -0.70 20.00 AVRG Benzo (b) fluoranthene 1.7420000 1.7252572 0.01 -0.96 50.00 AVRG Benzo (k) fluoranthene 1.6930000 1.7783411 0.01 5.04 50.00 AVRG Benzo (a) pyrene 1.5570000 1.5526594 0.01 -0.28 20.00 AVRG Dibenzo (a, h) anthracene 1.4120000 1.4058304 0.01 -0.44 50.00 AVRG Benzo (g, h, i) perylene 1.4410000 1.3710080 0.01 -4.86 50.00 AVRG 2-Fluorophenol 1.3700000 1.3403501 0.01 -2.16 50.00 AVRG Vitrobenzene-d5 0.5380000 0.5257480 0.01 -2.28 50.00 AVRG 2-Fluorobiphenyl 1.53990000 1.5299045 0.01 -0.59 50.00 AVRG 2-Fluorobiphenyl 1.5390000 0.4022837 0.01 0.32 50.00 AVRG					:		
3,3'-Dichlorobenzidine							
bis (2-ethylhexyl) Phthalate 1.0400000 1.0306035 0.01 -0.90 50.00 AVRG Benzo (a) anthracene 1.3370000 1.3364800 0.01 -0.04 50.00 AVRG Chrysene 1.2040000 1.1782510 0.01 -2.14 50.00 AVRG Di-n-octylphthalate 2.5580000 2.5399832 0.01 -0.70 20.00 AVRG Benzo (b) fluoranthene 1.7420000 1.7252572 0.01 -0.96 50.00 AVRG Benzo (k) fluoranthene 1.6930000 1.7783411 0.01 5.04 50.00 AVRG Benzo (a) pyrene 1.5570000 1.5526594 0.01 -0.28 20.00 AVRG Indeno (1, 2, 3-cd) pyrene 1.5310000 1.5032925 0.01 -1.81 50.00 AVRG Dibenzo (a, h) anthracene 1.4120000 1.4058304 0.01 -0.44 50.00 AVRG Benzo (g, h, i) perylene 1.3710080 0.01 -4.86 50.00 AVRG 2-Fluorophenol 1.3700000 1.3403501 0.01 -2.16 50.00 AVRG 2-Fluorobiphenol 1.7810000 1.7549808 0.01 -1.46 50.00 AVRG 2-Fluorobiphenyl 1.5390000 1.5299045 0.01 -0.59 50.00 AVRG 2-Fluorobiphenol 1.5390000 1.5299045 0.01 -0.59 50.00 AVRG 2-Fluorobiphenyl 1.5390000 1.5299045 0.01 -0.59 50.00 AVRG 2-Fluorobiphenyl 1.5390000 0.4022837 0.01 0.32 50.00 AVRG				!	:		
Benzo (a) anthracene 1.3370000 1.3364800 0.01 -0.04 50.00 AVRG Chrysene 1.2040000 1.1782510 0.01 -2.14 50.00 AVRG Di-n-octylphthalate 2.5580000 2.5399832 0.01 -0.70 20.00 AVRG Benzo (b) fluoranthene 1.7420000 1.7252572 0.01 -0.96 50.00 AVRG Benzo (k) fluoranthene 1.6930000 1.7783411 0.01 5.04 50.00 AVRG Benzo (a) pyrene 1.5570000 1.5526594 0.01 -0.28 20.00 AVRG Indeno (1, 2, 3-cd) pyrene 1.5310000 1.5032925 0.01 -1.81 50.00 AVRG Dibenzo (a, h) anthracene 1.4120000 1.4058304 0.01 -0.44 50.00 AVRG Benzo (g, h, i) perylene 1.4410000 1.3710080 0.01 -4.86 50.00 AVRG 2-Fluorophenol 1.3700000 1.3403501 0.01 -2.16 50.00 AVRG Phenol-d5 1.7810000 1.7549808 0.01 -1.46 50.00 AVRG 2-Fluorobiphenyl 1.5390000 1.5259045 0.01 -0.59 50.00 AVRG 2-Fluorobiphenol 0.4010000 0.4022837 0.01 0.32 50.00 AVRG 1-erphenyl-d14 1.4010000 0.4022837 0.01 0.32 50.00 AVRG	bis(2-ethylhexyl)Phthalate						
Chrysene 1.2040000 1.1782510 0.01 -2.14 50.00 AVRG Di-n-octylphthalate 2.5580000 2.5399832 0.01 -0.70 20.00 AVRG Benzo (b) fluoranthene 1.7420000 1.7252572 0.01 -0.96 50.00 AVRG Benzo (k) fluoranthene 1.6930000 1.7783411 0.01 5.04 50.00 AVRG Benzo (a) pyrene 1.5570000 1.5526594 0.01 -0.28 20.00 AVRG Indeno (1, 2, 3-cd) pyrene 1.5310000 1.5032925 0.01 -1.81 50.00 AVRG Dibenzo (a, h) anthracene 1.4120000 1.4058304 0.01 -0.44 50.00 AVRG Benzo (g, h, i) perylene 1.4410000 1.3710080 0.01 -4.86 50.00 AVRG 2-Fluorophenol 1.3700000 1.3403501 0.01 -2.16 50.00 AVRG Phenol-d5 1.7810000 1.7549808 0.01 -1.46 50.00 AVRG 2-Fluorobiphenyl 1.5390000 1.5299045 0.01 -0.59 50.00 AVRG 2-Fluorobiphenyl 1.5390000 1.5299045 0.01 -0.59 50.00 AVRG 2-Fluorobiphenyl 1.5390000 1.5299045 0.01 -0.59 50.00 AVRG 2-Fluorobiphenyl 1.5390000 1.5299045 0.01 -0.59 50.00 AVRG 2-Fluorobiphenyl 1.401000 1.4022837 0.01 0.32 50.00 AVRG	Benzo(a) anthracene						. ,
Di-n-octylphthalate	Chrysene						1
Benzo (b) fluoranthene 1.7420000 1.7252572 0.01 -0.96 50.00 AVRG Benzo (k) fluoranthene 1.6930000 1.7783411 0.01 5.04 50.00 AVRG Benzo (a) pyrene 1.5570000 1.5526594 0.01 -0.28 20.00 AVRG Indeno (1,2,3-cd) pyrene 1.5310000 1.5032925 0.01 -1.81 50.00 AVRG Dibenzo (a, h) anthracene 1.4120000 1.4058304 0.01 -0.44 50.00 AVRG Benzo (g, h, i) perylene 1.4410000 1.3710080 0.01 -4.86 50.00 AVRG 2-Fluorophenol 1.3700000 1.3403501 0.01 -2.16 50.00 AVRG Phenol-d5 1.7810000 1.7549808 0.01 -1.46 50.00 AVRG 2-Fluorobiphenyl 1.5390000 1.5257480 0.01 -2.28 50.00 AVRG 2-Fluorobiphenyl 1.5390000 1.5299045 0.01 -0.59 50.00 AVRG 2-Fluorobiphenyl 0.4010000 0.4022837 0.01 0.32 50.00 AVRG				:		_	
3enzo (k) fluoranthene	Benzo(b)fluoranthene						
36nzo(a)pyrene	Benzo(k)fluoranthene					*****	
Indeno(1,2,3-cd)pyrene 1.5310000 1.5032925 0.01 -1.81 50.00 AVRG Dibenzo(a,h)anthracene 1.4120000 1.4058304 0.01 -0.44 50.00 AVRG Benzo(g,h,i)perylene 1.4410000 1.3710080 0.01 -4.86 50.00 AVRG E-Fluorophenol 1.3700000 1.3403501 0.01 -2.16 50.00 AVRG E-Fluorophenol 1.7810000 1.7549808 0.01 -1.46 50.00 AVRG E-Fluorobiphenyl 1.5390000 0.5257480 0.01 -2.28 50.00 AVRG E-Fluorobiphenyl 1.5390000 1.5299045 0.01 -0.59 50.00 AVRG E-Fluorophenyl 0.4010000 0.4022837 0.01 0.32 50.00 AVRG E-French -1.81 50.00 AVRG E-French -1.81 50.00 AVRG E-Fluorobiphenyl 0.4010000 0.4022837 0.01 0.32 50.00 AVRG E-French -1.81 50.00 E-French -1.81 50.00 E-French -1.81 50.00 E-French -1.81 50.00 E-French -1.81 50.00 E-French -1.81 50.00 E-French -1.81 50.00 E-French -1.81 50.00 E-French -1.81 E-French -1.	Benzo(a)pyrene			! - !			
Dibenzo (a, h) anthracene 1.4120000 1.4058304 0.01 -0.44 50.00 AVRG Benzo (g, h, i) perylene 1.4410000 1.3710080 0.01 -4.86 50.00 AVRG 2-Fluorophenol 1.3700000 1.3403501 0.01 -2.16 50.00 AVRG Phenol-d5 1.7810000 1.7549808 0.01 -1.46 50.00 AVRG 2-Fluorobiphenyl 0.5380000 0.5257480 0.01 -2.28 50.00 AVRG 2-Fluorobiphenyl 1.5390000 1.5299045 0.01 -0.59 50.00 AVRG 2,4,6-Tribromophenol 0.4010000 0.4022837 0.01 0.32 50.00 AVRG	Indeno(1,2,3-cd)pyrene			:,			
Benzo (g,h,i) perylene 1.4410000 1.3710080 0.01 -4.86 50.00 AVRG 2-Fluorophenol 1.3700000 1.3403501 0.01 -2.16 50.00 AVRG Phenol-d5 1.7810000 1.7549808 0.01 -1.46 50.00 AVRG 2-Fluorobiphenyl 0.5380000 0.5257480 0.01 -2.28 50.00 AVRG 2-Fluorobiphenyl 1.5390000 1.5299045 0.01 -0.59 50.00 AVRG 2,4,6-Tribromophenol 0.4010000 0.4022837 0.01 0.32 50.00 AVRG	Dibenzo (a, h) anthracene			! !			
2-Fluorophenol 1.3700000 1.3403501 0.01 -2.16 50.00 AVRG Phenol-d5 1.7810000 1.7549808 0.01 -1.46 50.00 AVRG	Benzo(g,h,i)perylene						
2-Fluorophenol 1.3700000 1.3403501 0.01 -2.16 50.00 AVRG Phenol-d5 1.7810000 1.7549808 0.01 -1.46 50.00 AVRG Vitrobenzene-d5 0.5380000 0.5257480 0.01 -2.28 50.00 AVRG 2-Fluorobiphenyl 1.5390000 1.5299045 0.01 -0.59 50.00 AVRG 2,4,6-Tribromophenol 0.4010000 0.4022837 0.01 0.32 50.00 AVRG Cerphenyl-d14 1.2020000 1.3202000 1.3202000 1.3403501 0.01 0.32 50.00 AVRG		1		- !			!
2.16 50.00 AVRG	2-Fluorophenol				I	(
Vitrobenzene-d5 0.5380000 0.5257480 0.01 -1.46 50.00 AVRG 2-Fluorobiphenyl 1.5390000 1.5299045 0.01 -0.59 50.00 AVRG 2,4,6-Tribromophenol 0.4010000 0.4022837 0.01 0.32 50.00 AVRG				_ •			
2-Fluorobiphenyl 1.5390000 1.5299045 0.01 -2.28 50.00 AVRG 2.4.6-Tribromophenol 0.4010000 0.4022837 0.01 0.32 50.00 AVRG Cerphenyl-dl4				- 1			
2,4,6-Tribromophenol 0.4010000 0.4022837 0.01 0.32 50.00 AVRG					•		
Terphenyl-d14	2,4,6-Tribromophenol				1		
1.0/30000 1.089//39 0.01 1.56 50.00 AVRG				i	,		
	ţ	1 1 0 /30000	T.089//39	0.01	1.56	50.00	AVRG
		I					İ

age 2 of 2

FORM VII SV

CompuChem

a division of Liberty Analytical Corporation 501 Madison Avenue Cary, N.C. 27513

Tel: 919/379-4100 Fax: 919/379-4050

SDG NARRATIVE

SDG Q2812 PROTOCOL: SW-846

SAMPLE IDENTIFICATIONS: SS-MW09-0, SS-MW09-1, SS-MW09-4, SSMW07-0, SSMW07-1, SSMW07-4, SSMW08-0, SSMW08-1, SSMW08-4, SSMW10-0, SSMW10-4. SSMW10D-4, SSMW11-1, SSMW11-4, SSMW11D-1, SSMW11D-4

The 16 soil samples listed above were scheduled for the requested analyses of the Pest/PCB fraction. SW-846, 3rd Edition, Update 3, Methods 3550C and 8081A/8082 were used to analyze these samples, with the exceptions and/or additions requested by the client. All pertinent Quality Assurance Notices are included in the narrative section, and all pertinent Laboratory Notices for SDG Q2812 are included in the sample data sections.

Analysis holding time requirements were met for all of these samples. Target compounds were identified above the Contract Required Quantitation Limit (CRQL) in a few of these samples. Manual quantitations were performed on one or more of the process files associated with this SDG. The reasons have been coded with explanations provided in the notice included in the narrative section of the SDG.

The associated method blanks met all quality control criteria. With the exception of three outliers high for single component pesticides, the associated Laboratory Control Samples (LCS) met all accuracy criteria. Overall QC criteria were met for all initial and continuing calibration standards associated to this SDG. With the exception of DBC in samples SSMW10D-4, SSMW08-0, SSMW08-1, SSMW08-1 and SSMW11D-4, all of the system monitoring compounds met recovery criteria in the analyses of these samples. SSMW10-0 was used to prepare the duplicate matrix spikes and met all QC criteria.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Richard M. Henson

Technical Director

December 23, 2002

SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: COMPUCHEM Contract: 8081A-8082

Lab Code: COMPU Case No.: SAS No.: SDG No.: Q2812

GC Column(1): CLPEST ID: 0.53 (mm) GC Column(2): CLPEST2 ID: 0.53 (mm)

	EPA	S1	1	S1 2	TCX 1	TCX 2	OTHER	OTHER	TOT
	SAMPLE NO.	%REC	#	%REC #	%REC #	%REC #	(1)	(2)	TUO
	=========	====:	==	=====	=====	=====	======	=====	===
01	PBLKAB	93		105	83	86		1	0
02	PCBLCSAB	130		104	92	119			lo
03	SSMW10-OMS	92		93	88	87			0
04	SSMW10-0MSD	85		88	87	86			l o
05	SSMW10-0PCBM	88		92	86	90			0
06	SSMW10-0PCBM	110		83	85	86			0
07	SSMW07-0	57		76	110	105			Ö
08	SSMW07-1	120		71	85	104			Ö
09	SSMW07-4	77		90	88	96			ŏ
10	SSMW11-4	74		93	78	84			ŏ
11	SSMW11D-1	82		83	87	90			ŏ
12	SSMW10-0	93		94	91	95			ŏ
13	SSMW10-4	48		49	52	69			Õ
14	SSMW10D-4	230	*	177*	91	98			2
15	PBLKCL	88		87	84	107			ō
16	PLCSCL	100		102	130	94			ŏ
17	PCBLCSCL	50		49	60	44			ŏ
18	SS-MW09-0	65		67	59	61			ŏ,
19	SS-MW09-1	94		76	58	91			ŏ
20	SS-MW09-4	86		86	49	93			ő
21	PLCSAB	82		82	100	68			ŏ
22	SSMW08-0	7800	*	215*	110	113			2
23	SSMW08-1	150	*	852*	78	79			2
24	SSMW08-4	410	*	80	110	76			2 1
25	SSMW11-1	93		177*	81	80			1
26	SSMW11D-4	260	*	214*	84	90			2
27		200		22.2	Ŭ.	70			2
28									
29	i		-						
30			-	————					
1	l		<u> </u>		 -				1

ADVISORY

QC LIMITS
S1 = Decachlorobiphenyl (DC (43-144))
S2 (TCX) = Tetrachloro-m-Xylene (43-135)

[#] Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

Lab Name: COMPUCHEM

Contract: 8081A-8082

Lab Code: COMPU

Case No.:

SAS No.:

SDG No.: Q2812

GC Column: CLPEST

ID: 0.53 (mm) Init. Calib. Date(s): 12/07/02 12/08/02

Instrument ID: VARIAN34

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	MEAN SURROO S1 : 21.2/2	GATE RT FROM 1 TCX:	NITIAL CALI 4.38	BRATION	3/25/2	
	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	TCX RT #
012345678901234567890123222222331	PEMTP INDA1TP INDB1TP INDB2TP INDB3TP INDB3TP INDB4TP INDB4TP INDB5TP INDB5TP TOXAPH4TP CHLORO4TP AR16601TP AR16601TP AR16603TP AR16604TP AR16604TP AR12214TP AR12324TP AR12324TP AR12324TP AR12484TP PIBLKTW AR1660TX INDAMTX INDBMTX PBLKAB PCBLCSAB SSMW10-0MSD	PEMTP INDA1TP INDA2TP INDB2TP INDB3TP INDB3TP INDB4TP INDB5TP INDB5TP INDB5TP TOXAPH4TP CHLORO4TP AR16601TP AR16601TP AR16603TP AR16603TP AR16604TP AR12214TP AR12324TP AR12324TP AR12324TP AR12324TP AR12424TP AR12544TP PIBLKTW AR1660TX INDAMTX INDBMTX WG21774-1 WG21774-3 WG21774-3 WG21774-5	======================================	ANALYZED ====================================	RT # ======= 21.22 21.21 21.22 21.21 21.22 21.23 21.22 21.23 21.22 21.21 21.22 21.21 21.22 21.21 21.22 21.21 21.22 21.21 21.22 21.21 21.22 21.21 21.23 21.24 21.21 21.22 21.23 21.24 21.21 21.23 21.23 21.24 21.23 21.23 21.23 21.23 21.23	RT # 4.38
32	SSMW10-0PCBM	WG21774-6	12/09/02	1927	21.23	4.38

S1 = Decachlorobiphenyl (DC (+/- 0.07 MINUTES) TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

[#] Column used to flag retention time values with an asterisk.

^{*} Values outside of QC limits.

Lab Name: COMPUCHEM

Contract: 8081A-8082

Lab Code: COMPU

Case No.:

SAS No.:

SDG No.: Q2812

GC Column: CLPEST

ID: 0.53

(mm) Init. Calib. Date(s): 12/07/02 12/08/02

Instrument ID: VARIAN34

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	MEAN SURROO S1 : 21.2	3/25/53				
	EPA	LAB	DATE	TIME	S1	TCX
	SAMPLE NO.	SAMPLE ID	ANALYZED	ANALYZED	RT #	RT #
	=======================================	==========	=========	========	=======	=======
01	SSMW10-0PCBM	WG21774-7	12/09/02	1959	21.24	4.39
✓ 02 ✓ 03	PIBLKUE	PIBLKUE	12/09/02	2101	21.23	4.39
V 04	AR1660UF	AR1660UF INDAMUF	12/09/02 12/09/02	2132	21.24	4.39
		INDBMUF	12/09/02	2203	21.24	4.39
√ 05 06		02812-1	12/09/02	2234	21.24	4.39
07		02812-1	12/09/02	2305	21.24	4.39
08		Q2812-2 Q2812-3	12/09/02	2336 0007	21.24 21.24	4.39
09		ZZZZZ	12/10/02	0007		4.39
10	ZZZZZ	ZZZZZ	12/10/02	0109	21.18	4.38
11		ZZZZZ	12/10/02	0109	21.32* 21.30	4.45
12		ZZZZZ	12/10/02	0211	21.30	4.48*
13		02812-8	12/10/02	0242	21.36	4.38
14	1	02812-9	12/10/02	0313	21.23	4.38
15	ZZZZZ	ZZZZZ	12/10/02	0344	21.23	4.48*
16	PIBLKUG	PIBLKUG	12/10/02	0447	21.27	4.40
√ 17		AR1660UH	12/10/02	0518	21.36*	4.46*
~18	INDAMUH	INDAMUH	12/10/02	0549	21.23	4.38
√19		INDBMUH	12/10/02	0620	21.33*	4.44
20		ZZZZZ	12/10/02	0651	21.36*	4.47*
21	PIBLKUU	PIBLKUU	12/12/02	0004	21.21	4.37
< 22	AR1660UV	AR1660UV	12/12/02	0035	21.22	4.38
/ 23	INDAMUV	INDAMUV	12/12/02	0105	21.21	4.37
/24	INDBMUV	INDBMUV	12/12/02	0136	21.21	4.37
25	22888 PiMUV	ZZZZZ	12/12/02	0207	21.21	4.37
26	PBLKSC	PBLKSC	12/12/02	0238	21.22	4.38
27	SSMW10-0	Q2812-11	12/12/02	0309	21.23	4.37
28	SSMW10-4	Q2812-12	12/12/02	0340	21.22	4.37
29	SSMW10D-4	Q2812-13	12/12/02	0410	21.23	4.37
30	PIBLKUW	PIBLKUW	12/12/02	0614	21.23	4.38
√,31	AR1660UX	AR1660UX	12/12/02	0829	21.23	4.39
√32	INDAMUX	INDAMUX	12/12/02	0857	21.23	4.38
			l !			

QC LIMITS

S1 = Decachlorobiphenyl (DC (+/- 0.07 MINUTES) TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

* Values outside of QC limits.

page 2 of 3

[#] Column used to flag retention time values with an asterisk.

Lab Name: COMPUCHEM

Contract: 8081A-8082

Lab Code: COMPU

Case No.:

SAS No.:

SDG No.: Q2812

GC Column: CLPEST

ID: 0.53 (mm) Init. Calib. Date(s): 12/07/02 12/08/02

Instrument ID: VARIAN34

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	MEAN SURROO S1 : 21.2	GATE RT FROM D TCX:	NITIAL CAL 4.38	BRATION	. *	
	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	TCX RT #
√01 02	INDBMUX	INDBMUX	12/12/02	0928	21.23	4.38
03 04						
05						
06 07						
08 09						
10						
11 12						
13						
14 15						
16 17						
18						
19 20						
21						
22 23			***************************************			
24						
25 26						
27 28						
29						
30 31						
32						

S1 = Decachlorobiphenyl (DC (+/- 0.07 MINUTES) TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Lab Name: COMPUCHEM

Contract: 8081A-8082

Lab Code: COMPU

Case No.:

SAS No.:

SDG No.: Q2812

GC Column: CLPEST2

ID: 0.53 (mm) Init. Calib. Date(s): 12/07/02 12/08/02

Instrument ID: VARIAN35

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	MEAN SURROGATE RT FROM INITIAL CALIBRATION S1: 24.65 TCX: 5.57					
	EPA	LAB	DATE	TIME	S1	TCX
	SAMPLE NO.	SAMPLE ID	ANALYZED	ANALYZED	RT #	RT #
			=========	========	========	======================================
01	PEMTP	PEMTP	12/07/02	2235	24.65	5.57
02	INDA1TP	INDA1TP	12/07/02	2306	24.63	5.57
03	INDB1TP	INDB1TP	12/07/02	2337	24.65	5.57
04	INDA2TP	INDA2TP	12/08/02	0008	24.64	5.57
05	INDB2TP	INDB2TP	12/08/02	0039	24.64	5.57
06	INDA3TP	INDA3TP	12/08/02	0110	24.64	5.57
07	INDB3TP	INDB3TP	12/08/02	0141	24.64	5.57
0.8	INDA4TP	INDA4TP	12/08/02	0212	24.66	5.58
09	INDB4TP	INDB4TP	12/08/02	0243	24.64	5.57
10	INDA5TP	INDA5TP	12/08/02	0314	24.65	5.57
11	INDB5TP	INDB5TP	12/08/02	0345	24.64	5.57
12	TOXAPH4TP	TOXAPH4TP	12/08/02	0416	24.66	5.58
13	CHLORO4TP	CHLORO4TP	12/08/02	0447	24.64	5.57
14	AR16601TP	AR16601TP	12/08/02	0518	24.64	5.57
15	AR16602TP	AR16602TP	12/08/02	0549	24.64	5.57
16	AR16603TP	AR16603TP	12/08/02	0621	24.65	5.57
17	AR16604TP	AR16604TP	12/08/02	0652	24.64	5.56
18	AR16605TP	AR16605TP	12/08/02	0723	24.65	5.57
19	AR12214TP	AR12214TP	12/08/02	0754	24.64	5.57
20	AR12324TP	AR12324TP	12/08/02	0825	24.66	5.58
21	AR12424TP	AR12424TP	12/08/02	0856	24.63	5.57
22	AR12484TP	AR12484TP	12/08/02	0927	24.64	5.57
23	AR12544TP	AR12544TP	12/08/02	0958	24.65	5.58
24	PIBLKTX	PIBLKTX	12/09/02	1027	24.65	5.58
25	AR1660TX	AR1660TX	12/09/02	1059	24.67	5.59
26	INDAMTX	INDAMTX	12/09/02	1130	24.66	5.59
27	INDBMTX	INDBMTX	12/09/02	1201	24.67	5.59
28	PBLKAB	WG21774-1	12/09/02	1654	24.64	5.57
29	PCBLCSAB	WG21774-3	12/09/02	1754	24.66	5.58
30	SSMW10-0MS	WG21774-4	12/09/02	1825	24.65	5.58
31	SSMW10-0MSD	WG21774-5	12/09/02	1856	24.66	5.58
32	SSMW10-0PCBM	WG21774-6	12/09/02	1927	24.65	5.58
				±2 2 ,	22.03	5.50
	· ——— ·	·			I	ř

QC LIMITS S1 = Decachlorobiphenyl (DC (+/- 0.07 MINUTES) TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

[#] Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Lab Name: COMPUCHEM

Contract: 8081A-8082

Lab Code: COMPU

Case No.:

SAS No.:

SDG No.: Q2812

GC Column: CLPEST2

ID: 0.53 (mm) Init. Calib. Date(s): 12/07/02 12/08/02

Instrument ID: VARIAN35

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	MEAN SURRO	GATE RT FROM TCX:	[NITIAL CAL] 5.57	BRATION		
	51 . 24.05	1021.	3.37			
	EPA	LAB	DATE	TIME	S1	TCX
	SAMPLE NO.	SAMPLE ID	ANALYZED	ANALYZED	R T #	RT #
		======================================			=======	======
01	SSMW10-0PCBM	WG21774-7	12/09/02	1959	24.66	5.58
02	PIBLKUF	PIBLKUF	12/09/02	2101	24.66	5.58
03	AR1660UF	AR1660UF	12/09/02	2132	24.66	5.58
04	INDAMUF	INDAMUF	12/09/02	2203	24.66	5.58
05	INDBMUF	INDBMUF	12/09/02	2234	24.66	5.58
06	SSMW07-0	Q2812-1	12/09/02	2305	24.66	5.58
07	SSMW07-1	Q2812-2	12/09/02	2336	24.66	5.58
08	SSMW07-4	Q2812-3	12/10/02	0007	24.64	5.58
09	ZZZZZ	ZZZZZ	12/10/02	0038	24.65	5.57
10	ZZZZZ	ZZZZZ	12/10/02	0109	24.74*	5.64*
1.1	ZZZZZ	ZZZZZ	12/10/02	0140	24.72*	5.62
12	ZZZZZ	ZZZZZ	12/10/02	0211	24.80*	5.68*
13	SSMW11-4	Q2812-8	12/10/02	0242	24.65	5.57
14	SSMW11D-1	Q2812-9	12/10/02	0313	24.64	5.57
15	ZZZZZ	ZZZZZ	12/10/02	0344	24.80*	5.68*
16	PIBLKUH	PIBLKUH	12/10/02	0447	24.69	5.59
17	AR1660UH	AR1660UH	12/10/02	0518	24.78*	5.66*
18	INDAMUH	INDAMUH	12/10/02	0549	24.64	5.57
19	INDBMUH	INDBMUH	12/10/02	0620	24.75*	5.63
20	ZZZZZ	ZZZZZ	12/10/02	0651	24.80*	5.67*
21	PIBLKUV	PIBLKUV	12/12/02	0004	24.64	5.56
22	AR1660UV	AR1660UV	12/12/02	0035	24.65	5.57
23	INDAMUV	INDAMUV	12/12/02	0105	24.64	5.56
24	INDBMUV	INDBMUV	12/12/02	0136	24.64	5.56
25	BBBBB PEMUV	ZZZZZ	12/12/02	0207	24.64	5.56
26	PBLKSC	PBLKSC	12/12/02	0238	24.64	5.57
27	SSMW10-0	Q2812-11	12/12/02	0309	24.65	5.57
28	SSMW10-4	Q2812-12	12/12/02	0340	24.64	5.56
29	SSMW10D-4	Q2812-13	12/12/02	0410	24.65	5.57
30	PIBLKUX	PIBLKUX	12/12/02	0614	24.65	5.57
31	AR1660UX	AR1660UX	12/12/02	0829	24.66	5.57
32	INDAMUX	INDAMUX	12/12/02	0857	24.65	5.57

QC LIMITS

page 2 of 3

S1 = Decachlorobiphenyl (DC (+/- 0.07 MINUTES) TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

[#] Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Lab Name: COMPUCHEM

Contract: 8081A-8082

Lab Code: COMPU

Case No.:

SAS No.:

SDG No.: Q2812

GC Column: CLPEST2

ID: 0.53 (mm) Init. Calib. Date(s): 12/07/02 12/08/02

Instrument ID: VARIAN35

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SI S1 : 2	JRROGATE RT FROM 4.65 TCX:	IBRATION			
EPA SAMPLE I		DATE ANALYZED	TIME ANALYZED	S1 RT #	TCX RT #
01 INDBMUX 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24		ANALYZED			
25 26 27 28 29 30 31 32					

QC LIMITS

S1 = Decachlorobiphenyl (DC (+/- 0.07 MINUTES) TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

page 3 of 3

Lab Name: COMPUCHEM

Contract: 8081A-8082

Lab Code: COMPU

Case No.:

SAS No.:

SDG No.: Q2812

GC Column: CLPEST

ID: 0.53 (mm) Init. Calib. Date(s): 12/12/02 12/13/02

Instrument ID: TRACEGC82

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	MEAN SURROC	ATE RT FROM TCX:	BRATION			
	S1 : 17.31	ICA:	3.99			
	EPA	LAB	DATE	TIME	S1	TCX
	SAMPLE NO.	SAMPLE ID	ANALYZED	ANALYZED	RT #	RT #
	========	=======================================	=======================================	1450	=======	=======
01	PEMVL	PEMVL	12/12/02	1459	17.32	3.99 4.00
02	INDA1VL	INDA1VL	12/12/02	1527	17.32 17.32	4.00
03	INDB1VL	INDB1VL	12/12/02	1555	17.32	4.00
04	INDA2VL	INDA2VL	12/12/02	1624	17.32	4.00
05	INDB2VL	INDB2VL	12/12/02	1652		4.00
06	INDA3VL	INDA3VL	12/12/02	1720	17.32	4.00
07	INDB3VL	INDB3VL	12/12/02	1748	17.32	3.99
80	INDA4VL	INDA4VL	12/12/02	1816	17.31	3.99
09	INDB4VL	INDB4VL	12/12/02	1844	17.31	
1.0	INDA5VL	INDA5VL	12/12/02	1913	17.32	4.00
11	INDB5VL	INDB5VL	12/12/02	1941	17.32	4.00
12	TOXAPH4VL	TOXAPH4VL	12/12/02	2009	17.32	3.99
13	CHLORO4VL	CHLORO4VL	12/12/02	2037	17.32	3.99
14	AR16601VL	AR16601VL	12/12/02	2105	17.32	3.99
	AR16602VL	AR16602VL	12/12/02	2133	17.32	4.00
	AR16603VL	AR16603VL	12/12/02	2202	17.32	4.00
	AR16604VL	AR16604VL	12/12/02	2230	17.32	4.00
18	AR16605VL	AR16605VL	12/12/02	2258	17.32	3.99
19	AR12214VL	AR12214VL	12/12/02	2326	17.32	4.00
20	AR12324VL	AR12324VL	12/12/02	2354	17.32	4.00
21	AR12424VL	AR12424VL	12/13/02	0022	17.32	4.00
	AR12484VL	AR12484VL	12/13/02	0050	17.32	4.00
23	AR12544VL	AR12544VL	12/13/02	0119	17.32	4.00
	†₽IBLKVW	PIBLKVW	12/13/02	1132	17.34	4.02
NYS . (25	AR1660VX	AR1660VX	12/13/02	1200	17.34	4.03
26	INDAMVX	INDAMVX	12/13/02	1228	17.35	4.03
√ 27	INDBMVX	INDBMVX	12/13/02	1256	17.35	4.03
28	BEEZZE PEMY X	ZZZZZ	12/13/02	1325	17.35	4.03
29	PBLKCL	WG21887-1	12/13/02	1537	17.36	4.03
30	PLCSCL	WG21887-2	12/13/02	1604	17.36	4.04
31	PCBLCSCL	WG21887-3	12/13/02	1632	17.36	4.04
32	SS-MW09-0	Q2812-14	12/13/02	1700	17.36	4.04
					l	ll

QC LIMITS

S1 = Decachlorobiphenyl (DC (+/- 0.07 MINUTES)TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

[#] Column used to flag retention time values with an asterisk.

^{*} Values outside of QC limits.

Lab Name: COMPUCHEM

Contract: 8081A-8082

Lab Code: COMPU Case No.:

SAS No.:

SDG No.: Q2812

GC Column: CLPEST

ID: 0.53 (mm) Init. Calib. Date(s): 12/12/02 12/13/02

Instrument ID: TRACEGC82

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	MEAN SURROO S1 : 17.31					
	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	TCX RT #
01 02 03 04 05 06 07	SS-MW09-1 SS-MW09-4 PIBLKVY AR1660VZ INDAMVZ INDBMVZ	Q2812-15 Q2812-16 PIBLKVY AR1660VZ INDAMVZ INDBMVZ	12/13/02 12/13/02 12/13/02 12/13/02 12/13/02 12/13/02	1728 1756 1853 1921 1949 2017	17.36 17.37 17.36 17.37 17.37	4.05 4.05 4.04 4.04 4.05 4.05
08 09 10 11 12 13						
15 16 17 18 19 20 21						
22 23 24 25 26 27						
28 29 30 31 32						

S1 = Decachlorobiphenyl (DC (+/- 0.07 MINUTES) TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

[#] Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Lab Name: COMPUCHEM

Contract: 8081A-8082

Lab Code: COMPU

Case No.:

SAS No.:

SDG No.: Q2812

GC Column: CLPEST2

ID: 0.53

(mm) Init. Calib. Date(s): 12/12/02 12/13/02

Instrument ID: TRACEGC83

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	MEAN SURRO S1 : 19.66	GATE RT FROM TCX:	INITIAL CALI 4.84	BRATION		
	EPA	LAB	DATE	TIME	S1	TCX
	SAMPLE NO.	SAMPLE ID	ANALYZED	ANALYZED	RT #	RT #
	========	=========	========	========	=======	=======
01	PEMVL	PEMVL	12/12/02	1459	19.66	4.84
02	INDA1VL	INDA1VL	12/12/02	1527	19.66	4.84
03	INDB1VL	INDB1VL	12/12/02	1555	19.66	4.84
04	INDA2VL	INDA2VL	12/12/02	1624	19.66	4.84
05	INDB2VL	INDB2VL	12/12/02	1652	19.66	4.84
06	INDA3VL	INDA3VL	12/12/02	1720	19.66	4.84
07	INDB3VL	INDB3VL	12/12/02	1748	19.66	4.84
08	INDA4VL	INDA4VL	12/12/02	1816	19.66	4.84
09	INDB4VL	INDB4VL	12/12/02	1844	19.66	4.84
10	INDA5VL	INDA5VL	12/12/02	1913	19.66	4.84
11	INDB5VL	INDB5VL	12/12/02	1941	19.66	4.84
12	TOXAPH4VL	TOXAPH4VL	12/12/02	2009	19.66	4.84
13	CHLORO4VL	CHLORO4VL	12/12/02	2037	19.66	4.84
14	AR16601VL	AR16601VL	12/12/02	2105	19.66	4.84
15	AR16602VL	AR16602VL	12/12/02	2133	19.66	4.84
16	AR16603VL	AR16603VL	12/12/02	2202	19.66	4.84
17	AR16604VL	AR16604VL	12/12/02	2230	19.66	4.84
18	AR16605VL	AR16605VL	12/12/02	2258	19.66	4.84
19	AR12214VL	AR12214VL	12/12/02	2326	19.66	4.84
20	AR12324VL	AR12324VL	12/12/02	2354	19.66	4.84
21	AR12424VL	AR12424VL	12/13/02	0022	19.66	4.84
22	AR12484VL	AR12484VL	12/13/02	0050	19.66	4.84
23	AR12544VL	AR12544VL	12/13/02	0119	19.66	4.84
24	PIBLKVX	PIBLKVX	12/13/02	1132	19.67	4.86
25	AR1660VX	AR1660VX	12/13/02	1200	19.68	4.87
26	INDAMVX	INDAMVX	12/13/02	1228	19.68	4.87
27	INDBMVX	INDBMVX	12/13/02	1256	19.69	4.88
28	BEZZZ PEMVX	ZZZZZ	12/13/02	1325	19.69	4.88
29	PBLKCL	WG21887-1	12/13/02	1537	19.70	4.87
30	PLCSCL	WG21887-2	12/13/02	1604	19.70	4.88
31	PCBLCSCL	WG21887-3	12/13/02	1632	19.70	4.89
32	SS-MW09-0	Q2812-14	12/13/02	1700	19.70	4.89

QC LIMITS

S1 = Decachlorobiphenyl (DC (+/- 0.07 MINUTES) TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

[#] Column used to flag retention time values with an asterisk.

^{*} Values outside of QC limits.

Lab Name: COMPUCHEM

Contract: 8081A-8082

Lab Code: COMPU

Case No.:

SAS No.:

SDG No.: Q2812

GC Column: CLPEST2

ID: 0.53 (mm) Init. Calib. Date(s): 12/12/02 12/13/02

Instrument ID: TRACEGC83

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	MEAN SURROC S1 : 19.66	BRATION				
	EPA AMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	TCX RT #
01 SS 02 SS 03 PII	======================================	Q2812-15 Q2812-16 PIBLKVZ	12/13/02 12/13/02 12/13/02	1728 1756 1853 1921	19.70 19.71 19.70 19.70	4.89 4.90 4.89 4.89
05 INI 06 INI 07	1660VZ DAMVZ DBMVZ	AR1660VZ INDAMVZ INDBMVZ	12/13/02 12/13/02 12/13/02	1921 1949 2017	19.70 19.71 19.70	4.89
08 09 10 11 12						
13 14 15 16						
17 18 19 20						
21 22 23 24						
25 26 27 28						
29 30 31 32						

S1 = Decachlorobiphenyl (DC (+/- 0.07 MINUTES) TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Lab Name: COMPUCHEM Contract: 8081A-8082

SAS No.: Lab Code: COMPU Case No.: SDG No.: 02812

ID: 0.53 (mm) Init. Calib. Date(s): 12/18/02 12/18/02 GC Column: CLPEST

Instrument ID: VARIAN34

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MANY CURROCAME DE PROM INTERIAL CAT TERAMENT

			INITIAL CAL	IBRATION		
	S1 : 21.27	TCX:	4.40			
	EPA	LAB	DATE	TIME	S1	TCX
	SAMPLE NO.	SAMPLE ID	ANALYZED	ANALYZED	RT #	RT #
0.7-	======================================		10/10/00	=======	======	======
01	ZZZZZ PEMXV	ZZZZZ	12/18/02	1201	21.28	4.41
02	INDA1XV	INDA1XV	12/18/02	1232	21.27	4.40
03	INDB1XV	INDB1XV	12/18/02	1303	21.27	4.41
04	INDA2XV	INDA2XV	12/18/02	1334	21.27	4.40
05	INDB2XV	INDB2XV	12/18/02	1405	21.27	4.41
06	INDA3XV	INDA3XV	12/18/02	1435	21.26	4.40
07	INDB3XV	INDB3XV	12/18/02	1506	21.27	4.41
80	INDA4XV	INDA4XV	12/18/02	1537	21.28	4.41
09	INDB4XV	INDB4XV	12/18/02	1608	21.27	4.40
10	INDA5XV	INDA5XV	12/18/02	1639	21.27	4.40
11	INDB5XV	INDB5XV	12/18/02	1709	21.26	4.40
12	TOXAPH4XV	TOXAPH4XV	12/18/02	1740	21.28	4.41
13	CHLORO4XV	CHLORO4XV	12/18/02	1811	21.26	4.40
14	AR16601XV	AR16601XV	12/18/02	1842	21.26	4.40
15	AR16602XV	AR16602XV	12/18/02	1913	21.26	4.40
16	AR16603XV	AR16603XV	12/18/02	1944	21.27	4.40
17	AR16604XV	AR16604XV	12/18/02	2015	21.26	4.40
18	AR16605XV	AR16605XV	12/18/02	2045	21.27	4.40
19	AR12214XV	AR12214XV	12/18/02	2116	21.25	4.40
20	AR12324XV	AR12324XV	12/18/02	2147	21.26	4.40
21	AR12424XV	AR12424XV	12/18/02	2218	21.25	4.39
22	AR12484XV	AR12484XV	12/18/02	2249	21.26	4.40
23	AR12544XV	AR12544XV	12/18/02	2320	21.27	4.40
24	PIBLKYM	PIBLKYMYN	12/19/02	2013	21.23	4.37
∕25	AR1660YN	AR1660YN	12/19/02	2044	21.24	4.38
/26	INDAMYN	INDAMYN	12/19/02	2115	21.22	4.37
/27	INDBMYN	INDBMYN	12/19/02	2146	21.23	4.38
	EZZZZ PENYN	ZZZZZ	12/19/02	2217	21.22	4.37
29	PLCSAB	WG21774-2	12/19/02	2328	21.22	4.38
30	SSMW08-0	Q2812-4	12/20/02	0000	21.25	4.37
31	SSMW08-1	Q2812-5	12/20/02	0031	21.24	4.37
32	SSMW08-4	Q2812-6	12/20/02	0102	21.24	4.37
				0202	21.24	*•3/
	·	·	·	·		

QC LIMITS

page 1 of 2

S1 = Decachlorobiphenyl (DC (+/- 0.07 MINUTES) TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

[#] Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Lab Name: COMPUCHEM

Contract: 8081A-8082

Lab Code: COMPU

Case No.:

SAS No.:

SDG No.: 02812

GC Column: CLPEST

ID: 0.53 (mm) Init. Calib. Date(s): 12/18/02 12/18/02

Instrument ID: VARIAN34

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	MEAN SURROO S1 : 21.27	BRATION				
	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	TCX RT #
01 02 03 04 05 06 07	SSMW11-1 SSMW11D-4 PIBLKYQ AR1660YR INDAMYR INDBMYR	Q2812-7 Q2812-10 PIBLKYQ AR1660YR INDAMYR INDBMYR	12/20/02 12/20/02 12/20/02 12/20/02 12/20/02 12/20/02	0133 0204 0305 0336 0407 0438	21.23 21.23 21.22 21.22 21.23 21.21	4.37 4.37 4.37 4.37 4.37 4.37
08 09 10 11 12 13						
14 15 16 17 18 19 20						
21 22 23 24 25 26						
27 28 29 30 31 32						

S1 = Decachlorobiphenyl (DC (+/- 0.07 MINUTES) TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

[#] Column used to flag retention time values with an asterisk.

^{*} Values outside of QC limits.

Lab Name: COMPUCHEM

Contract: 8081A-8082

Lab Code: COMPU

Case No.:

SAS No.:

SDG No.: Q2812

GC Column: CLPEST2

ID: 0.53 (mm) Init. Calib. Date(s): 12/18/02 12/18/02

Instrument ID: VARIAN35

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

						10
	MEAN SURRO	GATE RT FROM	INITIAL CALI	BRATION		1256
	S1 : 24.70	TCX:	5.59			31 2
	69					
	EPA	LAB	DATE	TIME	S1	TCX
	SAMPLE NO.	SAMPLE ID	ANALYZED	ANALYZED	RT #	RT #
	=========	========	========	========		=======
01	ZZZZZ	ZZZZZ	12/18/02	1201	24.70	5.60
02	INDA1XV	INDA1XV	12/18/02	1232	24.68	5.59
03	INDB1XV	INDB1XV	12/18/02	1303	24.69	5.60
04	INDA2XV	INDA2XV	12/18/02	1334	24.68	5.59
05	INDB2XV	INDB2XV	12/18/02	1405	24.69	5.60
06	INDA3XV	INDA3XV	12/18/02	1435	24.68	5.59
07	INDB3XV	INDB3XV	12/18/02	1506	24.69	5.60
80	INDA4XV	INDA4XV	12/18/02	1537	24.70	5.60
09	INDB4XV	INDB4XV	12/18/02	1608	24.68	5.59
10	INDA5XV	INDA5XV	12/18/02	1639	24.70	5.59
11	INDB5XV	INDB5XV	12/18/02	1709	24.68	5.59
12	TOXAPH4XV	TOXAPH4XV	12/18/02	1740	24.70	5.60
13	CHLORO4XV	CHLORO4XV	12/18/02	1811	24.68	5.59
14	AR16601XV	AR16601XV	12/18/02	1842	24.68	5.59
15	AR16602XV	AR16602XV	12/18/02	1913	24.68	5.59
16	AR16603XV	AR16603XV	12/18/02	1944	24.69	5.59
1.7	AR16604XV	AR16604XV	12/18/02	2015	24.68	5.59
18	AR16605XV	AR16605XV	12/18/02	2045	24.69	5.59
19	AR12214XV	AR12214XV	12/18/02	2116	24.68	5.59
20	AR12324XV	AR12324XV	12/18/02	2147	24.68	5.59
21	AR12424XV	AR12424XV	12/18/02	2218	24.67	5.58
22	AR12484XV	AR12484XV	12/18/02	2249	24.68	5.59
23	AR12544XV	AR12544XV	12/18/02	2320	24.69	5.59
24	PIBLKYN	PIBLKYMYN	12/19/02	2013	24.64	5.55
25	AR1660YN	AR1660YN	12/19/02	2044	24.65	5.56
26	INDAMYN	INDAMYN	12/19/02	2115	24.63	5.55
27	INDBMYN	INDBMYN	12/19/02	2146	24.64	5.56
28	ZZZZZ PEMYN	ZZZZZ	12/19/02	2217	24.63	5.55
29	PLCSAB	WG21774-2	12/19/02	2328	24.62	5.54
30	SSMW08-0	Q2812-4	12/20/02	0000	24.58*	5.55
31	SSMW08-1	Q2812-5	12/20/02	0031	24.64	5.55
32	SSMW08-4	Q2812-6	12/20/02	0102	24.63	5.55
_	_	-				
		·	·		li	

QC LIMITS

S1 = Decachlorobiphenyl (DC (+/-0.07 MINUTES)TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

[#] Column used to flag retention time values with an asterisk.

^{*} Values outside of QC limits.

Lab Name: COMPUCHEM

Contract: 8081A-8082

Lab Code: COMPU

Case No.:

SAS No.:

SDG No.: Q2812

GC Column: CLPEST2

ID: 0.53 (mm) Init. Calib. Date(s): 12/18/02 12/18/02

Instrument ID: VARIAN35

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	MEAN SURROO S1: 24.70	GATE RT FROM TCX:	INITIAL CALI 5.59	BRATION			
	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	TCX RT #	
01 02 034 056 07 08 09 10 112 13 14 15 16 17 18 19 20 21 22 23	SAMPLE NO.					RT # ====== 5.55 5.55 5.55 5.55 5.55	3/23
24 25 26 27							
28 29 30 31 32							

QC LIMITS

S1 = Decachlorobiphenyl (DC (+/- 0.07 MINUTES) TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

[#] Column used to flag retention time values with an asterisk.

^{*} Values outside of QC limits.

10A PESTICIDE IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS-MW09-0

Lab Name: COMPUCHEM

Contract: 8081A-8082

Lab Code: COMPU Case No.:

SAS No.:

SDG No.: Q2812

Lab Sample ID: Q2812-14

Date(s) Analyzed: 12/13/02 12/13/02

Instrument ID (1): TRACEGC82

Instrument ID (2): TRACEGC83

GC Column(1): CLPEST ID: 0.53 (mm) GC Column(2): CLPEST2

ID: 0.53 (mm)

				INDOW		
ANALYTE	COL	RT	FROM	TO	CONCENTRATION	RPD
4,4'-DDD	1	11.83	11.82	11.96	2.7	
	2	13.72	13.68	13.81	0.55	132.3
4,4'-DDE	1	10.50	10.38	10.53	1.7	
	2	12.34	12.26	12.39	1.6	6.1
4,4'-DDT	1	12.60	12.48	12.62	3.0	
	2	14.52	14.41	14.55	8.8	98.3
	1	-				
	2					
	1	·				
	2					
	1					
	2					
	1					
	2					
	1					
	2					

10A PESTICIDE IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS-MW09-4

Lab Name: COMPUCHEM

Contract: 8081A-8082

Lab Code: COMPU Case No.: SAS No.:

SDG No.: Q2812

Lab Sample ID: Q2812-16

Date(s) Analyzed: 12/13/02 12/13/02

Instrument ID (1): TRACEGC82

Instrument ID (2): TRACEGC83

GC Column(1): CLPEST ID: 0.53 (mm) GC Column(2): CLPEST2

ID: 0.53 (mm)

ANALYTE	COL	RT	RT W: FROM	INDOW TO	CONCENTRATION	RPD
	===	=====	=====	=====	=======================================	
4,4'-DDD	1	11.83	11.82	11.96	3.5	
	2	13.73	13.68	13.81	6.4	58.6
4,4'-DDT	1	12.49	12.48	12.62	7.3	
	2	14.48	14.41	14.55	5.1	35.5
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

page 1 of 1

10A

PESTICIDE IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SSMW07-0

Lab Name: COMPUCHEM

Contract: 8081A-8082

Lab Code: COMPU Case No.:

SAS No.:

SDG No.: Q2812

Lab Sample ID: Q2812-1

Date(s) Analyzed: 12/09/02 12/09/02

Instrument ID (1): VARIAN34

Instrument ID (2): VARIAN35

GC Column(1): CLPEST ID: 0.53(mm) GC Column(2): CLPEST2 ID: 0.53(mm)

			RT W	INDOW	——————————————————————————————————————	
ANALYTE	COL	RT	FROM	то	CONCENTRATION	RPD
	===	=====	*****	=====		======
4,4'-DDT	1	14.78	14.70	14.84	3.3	
	2	17.60	17.52	17.66	4.3	26.3
	1					
	2					
	,					
	1			ļ 		
	2					
	_					
	1					
	2					
	1	-				
	2					 :
	_					
	1	-		ļ		
	2		<u> </u>			
	_					
	1					
	2					
	1					
	2					
	l	l	1	l	l	l

10A PESTICIDE IDENTIFICATION SUMMARY

EPA SAMPLE NO.

FOR SINGLE COMPONENT ANALYTES

SSMW08-0

Lab Name: COMPUCHEM

Contract: 8081A-8082

Lab Code: COMPU Case No.:

SAS No.:

SDG No.: Q2812

Lab Sample ID: Q2812-4

Date(s) Analyzed: 12/20/02 12/20/02

Instrument ID (1): VARIAN34

Instrument ID (2): VARIAN35

GC Column(1): CLPEST ID: 0.53(mm) GC Column(2): CLPEST2 ID: 0.53(mm)

			RT W	MDOW		
ANALYTE	COL	RT	FROM	TO	CONCENTRATION	RPD
**************************************	===	=====	=====	=====	=======================================	=====
Dieldrin	1	12.62	12.56	12.70	5.9	ŀ
	2	14.92	14.86	15.00	27	128.3
	_					
Endosulfan II	1	14.01	13.98	14.12	5.0	
	2					112 0
	4	16.67	16.56	16.70	18	113.0
Endrin Ketone	1	17.65	17.55	17.68	52	
Endin Recone						
	2	20.28	20.26	20.40	49	5.9
	1					
	2					
	1					
	2					
	_	<u></u>				
	1					
	2	<u> </u>				
	1					
	2					
	1					
	2					
	l					

page 1 of 1

SSMW08-1

Lab Name: COMPUCHEM

Contract: 8081A-8082

Lab Code: COMPU Case No.: SAS No.:

SDG No.: Q2812

Lab Sample ID: Q2812-5

Date(s) Analyzed: 12/20/02 12/20/02

Instrument ID (1): VARIAN34

Instrument ID (2): VARIAN35

GC Column(1): CLPEST ID: 0.53(mm) GC Column(2): CLPEST2

ID: 0.53 (mm)

ANALYTE	COL	RT	RT W	INDOW TO	CONCENTRATION	RPD
=======================================	===== ===	=====	======	=====	========	=====
Aldrin	1	8.85	8.73	8.87	0.40	
	2	10.85	10.82	10.96	0.98	84.0
	1					
	2					
	1					
	2	· 				
	1					
	2					
	1					
	2					
	1		i			
	2					
	2					
	1					
	2					

page 1 of 1

FORM X PEST-1

10A

EPA SAMPLE NO.

PESTICIDE IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SSMW08-4

Lab Name: COMPUCHEM

Contract: 8081A-8082

Lab Code: COMPU Case No.:

SAS No.:

SDG No.: Q2812

Lab Sample ID: Q2812-6

Date(s) Analyzed: 12/20/02 12/20/02

Instrument ID (1): VARIAN34

Instrument ID (2): VARIAN35

GC Column(1): CLPEST ID: 0.53(mm) GC Column(2): CLPEST2 ID: 0.53(mm)

	1	I	יש יים	INDOW		
ANALYTE	COL	RT	FROM	TO	CONCENTRATION	RPD
	===	======	=====	======		=====
4,4'-DDD	1	13.88	13.82	13.96	4.2	
	2	16.57	16.52	16.66	4.3	2.4
Dieldrin	1	12.62	12.56	12.70	2.6	
	2	14.94	14.86	15.00	16	144.1
Endrin Ketone	1	17.58	17.55	17.68	5.5	
	2	20.28	20.26	20.40	2.9	61.9
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

10A PESTICIDE IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SSMW10-4 Contract: 8081A-8082

Lab Name: COMPUCHEM

Lab Code: COMPU Case No.: SAS No.:

SDG No.: Q2812

Lab Sample ID: Q2812-12

Date(s) Analyzed: 12/12/02 12/12/02

GC Column(1): CLPEST ID: 0.53(mm) GC Column(2): CLPEST2 ID: 0.53(mm)

ANALYTE	COL	RT =====	RT WI FROM	TO	CONCENTRATION	RPD
4,4'-DDT	1	14.76	l	14.82	0.47	
	2	17.58	17.51	17.65	0.93	65.7
	1					
	2					
	1					
	2			ļ.——		
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2			-		
	1					
	2					

10A

PESTICIDE IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

Contract: 8081A-8082 Lab Name: COMPUCHEM

SSMW10D-4

Lab Code: COMPU Case No.:

SAS No.:

SDG No.: Q2812

Lab Sample ID: Q2812-13

Date(s) Analyzed: 12/12/02 12/12/02

Instrument ID (1): VARIAN34

Instrument ID (2): VARIAN35

GC Column(1): CLPEST ID: 0.53(mm) GC Column(2): CLPEST2

ID: 0.53 (mm)

			RT W			
ANALYTE	COL	RT	FROM	TO	CONCENTRATION	RPD
	===				1	
gamma-BHC (Lindane)	1	6.58	6.54	6.68	0.37	
	2	8.54	8.46	8.60	0.31	17.6
4,4'-DDD	1	13.89	13.80	13.94	0.40	
	2	16.60	16.51	16.65	0.42	4.9
		= 0.00				
4,4'-DDT	1	14.77	14.69	14.82	1.5	
1,1 ===	2	17.59				66.7
	4	17.59	17.51	17.65	3.0	00.7
	1			ļ		1
				l ———		
	2		ļ	<u> </u>		
				1		1
	1					
	2					
	1					
	1					
	2					
	1					
	2					
	1					
	1					
	2					
	- 1	· ————				

page 1 of 1

10A PESTICIDE IDENTIFICATION SUMMARY

EPA SAMPLE NO.

FOR SINGLE COMPONENT ANALYTES

SSMW11D-1

Lab Name: COMPUCHEM

Contract: 8081A-8082

Lab Code: COMPU Case No.: SAS No.:

SDG No.: Q2812

Lab Sample ID: Q2812-9

Date(s) Analyzed: 12/10/02 12/10/02

Instrument ID (1): VARIAN34

Instrument ID (2): VARIAN35

GC Column(1): CLPEST ID: 0.53(mm) GC Column(2): CLPEST2 ID: 0.53(mm)

			RT W	INDOW		1
ANALYTE	COL	RT	FROM	TO	CONCENTRATION	RPD
=======================================	===	=====	=====	=====	==========	=====
4,4'-DDE	1	12.01	11.93	12.07	1.5	
	2	14.70	14.63	14.77	1.6	6.4
4,4'-DDT	1	14.77	14.70	14.84	1.2	
	2	17.58	17.52	17.66	1.7	34.5
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

10A PESTICIDE IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

Lab Name: COMPUCHEM

Contract: 8081A-8082

SSMW11D-4

Lab Code: COMPU Case No.:

SAS No.:

SDG No.: Q2812

Lab Sample ID: Q2812-10

Date(s) Analyzed: 12/20/02 12/20/02

Instrument ID (1): VARIAN34

Instrument ID (2): VARIAN35

GC Column(1): CLPEST ID: 0.53(mm) GC Column(2): CLPEST2 ID: 0.53(mm)

	T		RT W	INDOW	· · · · · · · · · · · · · · · · · · ·	
ANALYTE	COL	RT	FROM	TO	CONCENTRATION	RPD
			=====	=====	=======================================	=====
4,4'-DDD	1	13.88	13.82	13.96	0.71	
	2	16.57	16.52	16.66	0.88	21.4
4,4'-DDT	1	14.76	14.69	14.83	0.42	
	2	17.56	17.50	17.64	1.3	102.3
					;	
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
1	2		:			

page 1 of 1

FORM X PEST-1

a Division of Liberty Analytical Corp.

501 Madison Avenue Cary, NC 27513

INORGANIC CASE SUMMARY NARRATIVE SDG # Q2812 PROTOCOL # SW-846

The indicated Sample Delivery Group (SDG) consisting of sixteen (16) soil samples was received into the laboratory management system (LIMS) on December 4 and 11, 2002 intact and in good condition with Chains of Custody (COC) records in order. Sample ID's reported in this data package are noted by the receiving department on the COC if they differ from those listed by the samplers on the COC.

The samples were analyzed for total TAL metals using analytical methods delineated in SW-846 (Third Edition)-Update III.

SAMPLE IDs:

Customer IDs and correlating laboratory IDs are listed on the cover page.

INSTRUMENTAL QUALITY CONTROL:

All calibration verification solutions (ICV & CCV), blanks (ICB, & CCB), and interference check samples (ICSA & ICSAB) associated with this data were confirmed to be within SW-846 allowable limits.

SAMPLE PREPARATION QUALITY CONTROL:

The sample preparation procedure verifications (LCSS & PBS) were found to be within acceptable ranges and all field samples were prepared and analyzed within the contract specified holding times.

COMPUCHEM utilizes a soil Laboratory Control Sample (LCS) purchased from Environmental Resources Associates (ERA). With each lot of soil LCS material purchased, a certification document is included which provides Performance Acceptance Limits TM (PAL TM). The limits are listed as guidelines for acceptable results and closely approximate the 95% confidence interval. As with any LCS, it is a QC measure used to demonstrate control and any results, which are outside the acceptance criteria, require corrective action up to and including redigesting and reanalyzing the entire sample preparation batch.

MATRIX RELATED QUALITY CONTROL:

The sample matrix spike, CCN = WG22023-1 (SSMW10-0S) was found to be outside control limits for lead and thallium. The reported concentrations for these analytes are flagged with an "N" on all associated Form 1 and on Form 5a.

An "N" indicates a matrix-related interference in the sample preparation procedure &/or analysis for the flagged analyte. This is normally the consequence of a relatively high anionic content in the sample or (for some sediments) an inconsistent sample matrix relative to that analyte.

SW-846 control limits for matrix spike recoveries are set at 75% to 125% of the analyte quantity added unless original sample concentrations exceed the true values of these "spikes" by a factor of four or more. In this case, affected analytes are not flagged even if recoveries are outside percentage recovery control limits.

Post-digestion spikes are mandatory for analytes demonstrating unsatisfactory matrix spike recoveries during ICP analysis (excluding silver). The results of such spikes are presented on Form 5b.

Unsatisfactory recovery of post-digestion spikes of this type do not have bearing upon the aforementioned "N" flags, but may indicate interference during analysis &/or a solution matrix which is hostile to the analyte in question.

Satisfactory recovery of an analyte in a post-digestion spike of this type implies interference by the required preparation procedure or in the sample matrix itself. Lack of uniformity for an analyte in sediments will also result in satisfactory recovery of post-digestion spikes after failure in the related matrix spike.

The sample matrix duplicate, CCN = WG22023-3 (SSMW10-0D) was inside control limits for the requested analytes.

SW-846 control limits for duplicate determinations are +/- 20% Relative Percent Difference (RPD) for concentrations greater than or equal to five times the PQL in both the original and duplicate samples, and +/- the PQL for concentrations less than five times the PQL. The RPD is not calculated if both the original and duplicate values fall below the IDL.

A five-fold serial dilution of sample, CCN = Q2812-11 (SSMW10-0L) was performed in accordance with SW-846 requirements for ICP analysis.

The adjusted sample concentrations were outside control limits for magnesium and zinc, which are flagged with an "E" on all associated Form 1, the Cover Page and Form 9.

An "E" indicates that a chemical or physical interference effect was encountered during the analysis of the flagged analyte. As a result of this interference, all values for the analyte in the same matrix must be considered to be estimated quantities.

SW-846 control limits for serial dilution are defined as a deviation less than or equal to 10% in the dilution-adjusted concentrations from the original values for all analyte concentrations with values greater than fifty (50) times their respective Instrument Detection Limit (IDL) in the original sample.

The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Thomas R. Cole Data Reviewer II December 19, 2002

2B-IN

CRDL STANDARD FOR AA AND ICP

ab Name:	COMPUCHEM	·-··	Contract:		,
Cab Code:	LIBRTY Case	No.:	SAS No.:	SDG No.:	Q2812
A CRDL Sta	andard Source:	HIPUR			
CP CRDL S1	andard Source:	HIPUR			
			Concentration Units: uo	·/L	

CRDL Standard for ICP Initial Final Analyte True Found ₽R. True Found %R Found %R Aluminum 100.0 111.95 112.0 Antimony 10.0 10.93 109.3 Arsenic 10.0 10.46 104.6 Barium 10.0 10.99 109.9 Beryllium 5.0 5.13 102.6 Cadmium 5.80(116.0 5.0 Calcium 1000.0 1033.28 103.3 Chromium 5.0 4.60 92.0 Cobalt 5.0 5.29 105.8 Copper 5.0 3.35 67.0 Iron 100.0 95.04 95.0 Lead 3.0 3.28 109.3 Magnesium 1000.0 985.94 98.6 Manganese 10.12 101.2 10.0 Mercury 0.2 0.24 120.0 Nickel 5.0 5.49 109.8 Potassium 1000.0 1173.32 117.3 Selenium 5.0 3.30 66.0 Silver 5.0 4.71 94.2 Sodium 2000.0 1596.76 79,8 Thallium 10.0 10.85 108.5 Vanadium 20.0 20.11 100.6 Zinc 20.0 20.54 102.7

Control Limits: no limits have been established by EPA at this time

SW-040 MELALS

3

ab Name:	COMPUCHEM			Contract:	_ <u></u>		-
lab Code:	LIBRTY	Case No.:	SAS	No.:	SDG No.:	Q2812	
reparation	n Blank Matrix	(soil/water)	SOIL				
'reparation	n Blank Concen	tration Units	(ug/L or mg/kg)	: <u>MG/</u>	KG		

	Initial Calib. Blank		Co	ontinuing Cal Blank (ug/		Preparation Blank				
Analyte	(ug/L)	1	C	2	c	, 3	С		С	м
Aluminum	21.8 U	21.8	ן ט	21.8	יט	21.8	ט	2.180	U	P
Antimony	3.7 0	3.7	ן ט	3.7	ט		ט	0.370	U	P
Arsenic	2.5 0	2.5	U	2.5	ט	2.5	Ū	0.250	Ŭ	P
Barium	0.4 E	0.5	В	0.5	В	0.4	B	0.036	В	P
Beryllium	0.10	0.1	В	0.1	U	0.1	ם	0.010	U	P
Cadmium	0.4 0	0.4	U	0.4	ט	0.4	ט	0.040	U	P
Calcium	9.60	16.0	В	9.6	U	9.6	U	0.960	U	P
Chromium	0.6 0			0.6	ט	0.6	ט	0.060	U	P
Cobalt	0.60	0.6	U	0.6	ַ	0.6	U	0.060	Ū	P
Copper	1.4 U	1.4	U	1.4	ט	1.4	บ	0.140	U	P
Iron	13.7 U	13.7	ט	13.7	ט	13.7	ט	1.370	U	P
Lead	2.3 0	2.3	ַ	2.3	ט	2.3	ט	0.230	U	P
Magnesium	62.2 E	74.2	В	65.0	В	66.1	В	6.254	В	P
Manganese	0.20	0.2	יט	0.2	ט	0.2	ע	0.020	U	P
Mercury	0.10	0.1	U	0.1	ט	0.1	Ü	0.017	U	CV
Nickel	1.0 U	1.0	U	1.0	ט	1.0	Ū	0.100	U	P
Potassium	118.5 U	118.5	V	118.5	U	121.5	В	33.713	В	P
Selenium	3.3 0	3.3	Ū	3.3	וט	3.3	U	0.330	U	P
Silver	0.70		_	0.7	ט	0.7	U	0.070	U	P
Sodium	248.7			248.7	ט	248.7	Ū	24.870	U	P
Thallium	5.1 0			5.1	ט	5.1	บ	0.510	U	P
Vanadium	0.70			0.7	U	0.7	บ	0.070	Ū	P
Zinc	1.0 U			1.0	U	1.0	U	0.150	В	P

3

ab Name:	COMPUCHEM		Contrac	Contract:							
Lab Code:	LIBRTY	Case No.:	SAS No.:		SDG No.:	<u>Q</u> 2812					
?reparatio	n Blank Matrix	(soil/water):	WATER								
?reparation	n Blank Concent	tration Units (ug/L or mg/kg):	UG/L							

Analyte	Initial Calib. Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
	(09,)	¢	1	C	2	С	3	С	1	С	м
Aluminum			21.8	וטן	21.8	וט	21.8	ט	İ	Ī	P
Antimony		\prod	3.7	וטן	3.7	ַט	3.7	ט	i	Ì	P
Arsenic			2.5	ן ט	2.5	U	2.5	U			P
Barium	T		0.5	B	0.6	В	0.5	В		<u> </u>	P
Beryllium			0.1	ט	0.2	В	0.1	В	i	<u> </u>	P
Cadmium			0.4	ָּט	0.4	U	0.4	บ		<u> </u>	P
Calcium			9.6		15.2	В	9.6	U		<u> </u>	P
Chromium			0.6		0.6	ט	0.6	Ū	Ĭ	<u></u>	P
Cobalt		11	0.6	ט	0.6	В	0.6	ับ		<u> </u>	P
Copper		11	1.4		1.4	ט	1.4	U		<u> </u>	P
Iron			13.7		13.7	ט	13.7	Ū		<u> </u>	P
Lead		111	2.3	U	2.3	U	2.3	Ū		 	P
Magnesium		1-1	65.9		72.8	В	66.3	В		l	P
Manganese	1	1	0.2		0.3	В	0.2	U		l	P
Mercury			0.1		-			İ		L—	CV
Nickel			1.0	υj	1.0	וט	1.0	υ		L	P
Potassium	İ	11	118.5	-	146.9	B	118.5	ับ		L	l P
Selenium	İ	11	3.3		3.3	וט	3.3	U			P
Silver	i -	††	0.7		0.7		0.7	ָ ע			P
Sodium		11	248.7	_	248.7			บ			l P
Thallium	i i	1-1	5.1	_	5.1		5.1	บ	<u> </u>	L	l P
Vanadium		 	0.7		0.7	וט	0.7	<u>ט</u>	<u> </u>	l	P
Zinc	 	+ +	1.0		1.0		1.0	U	-		P

3

ab Name:	COMPUCHEM		Co	ontract:			
Lab Code:	LIBRTY	Case No.: _	SAS N	o.:	SDG No.;	02812	
reparation	n Blank Matrix	(soil/water)	WATER	_			
reparation	n Blank Concent	tration Units	(ug/L or mg/kg):	UG/L			

Analyte	Initial Calib. Blank (ug/L)	c	1	C	ontinuing Cal Blank (ug/	Preparation Blank	c	м			
Aluminum	<u> </u>	-	21.8		21.8	C I UI	21.8	U	<u> </u>		P
Antimony	1	+ †	3.7		3.7				<u>1</u> 1		P
Arsenic	<u> </u>	1 1	2.5		2.5			В			P
Barium	1	1	0.5	_	0.5		0.4	В			P
Beryllium	···	ti	0.1		0.2			ับ			P
Cadmium		1	0.4		0.4	ט		บ			P
Calcium		1 1	9.6		9.6	ט	9.6	U			₽
Chromium	İ	T	0.6		0.6	U	0.6	บ			P
Cobalt	İ			_	0.6	U		Ū			P
Copper	İ		1.4		1.4	U	1.4	บ	1		₽
Iron	1		13.7		13.7	Ū	13.7	U			P
Lead			2.3		2.3	U	2.3	Ū			P
Magnesium			66.4	B	68.6	В	61.8	В			P
Manganese			0.2	υl	0.2	ט	0.2	U			P
Nickel			1.0		1.0	ַט	1.0	U			P
Potassium	1		118.5	_	313.5	В	299.0	В	İ		P
Selenium	1		3.3		3.3	U	3.3	U			P
Silver		7 1	0.7		0.7	ט	0.7	U			P
Sodium	1	11	248.7		248.7	שׁ	248.7	U			P
Thallium		11	5.1	_	5.1	ט	5.1	บ			P
Vanadium			0.7		0.7	וט	0.7	U	i		P
Zinc		1 1	1.0		1.0	υl	1.0	U	İ		P

SW-840 MILIALS

3

ab Name:	COMPUCHEM		Contra	act:			
Lab Code:	LIBRTY	Case No.:	SAS No.:		SDG No.:	Q2812	
?reparation	Blank Matrix	(soil/water):	WATER				
?reparation	Blank Concent	ration Units ((ug/L or mg/kg):	UG/L			

						_					
Analyte	Initial Calib. Blank (ug/L)	С	10 1	Co C	Preparation Blank	с	м				
Aluminum		\top	21.8	ן ט	21.8	U	21.8	U		<u> </u>	P
Antimony	Ì	11	3.7		3.7	U	3.7	บ		1	P
Arsenic		11	2.5	υİ	2.5	U	2.5	U		<u> </u>	P
Barium		T	0.4		0.6	В	0.4	В	j		P
Beryllium		11	0.1		0.1	В	0.1	U			P
Cadmium		11	0.4		0.4	U	0.4	บ		1	P
Calcium			9.6	ָט	11.6	В	9.6	U		Ì	P
Chromium	1		0.6		0.6	U	-0.8	В		Ì	P
Cobalt			0.6	וט	0.6	U	0.6	U			P
Copper	1		1.4		1.4	ט	1.4	U			P
Iron			13.7	υį	13.7	ט	13.7	Ų		i	P
Lead			2.3	ן ט	2.3	ט	2.3	บ		i	P
Magnesium			66.2	В	70.4	В	66.8	В			P
Manganese			0.2	ט ן	0.2	ט	0.2	Ü		1	P
Nickel			1.0		1.0	U	1.0	Ū		ĺ	P
Potassium			185.1	В	204.2	В	208.2	В		i i	P
Selenium	1	\top	3.3	U	3.3	ט	3.3	U		i	P
Silver			0.7	U	0.7	ט	-0.7	В		i	P
Sodium	1		248.7	עו	248.7	ט	248.7	Ū			P
Thallium]		5.1	υŢ	5.1	יט	5.1	U		i	P
Vanadium			0.7	υŢ	0.7	ַ	0.7	Ū		i	P
Zinc	1		1.0	υŢ	1.0	ט	1.0	U		i	P

SW-040 MEIALS

5A

SPIKE SAMPLE RECOVERY

SAMPLE NO.

ab Name:	COMPUCHEM		Contract:	Contract:								
lab Code:	LIBRTY	Case No.:	SAS No.:	SDG No.:	Q2812							
Matrix (so	oil/water):	SOIL	Level (low/med):	LOW								
: Solide f	or Samole:	89.3										

	Conc	centration Units (ug.	/L	or mg/kg dry weigh	t):	_MG/KG	<u>.</u>		
Analyte	Control Limit %R	Spiked Sample Result (SSR)	С	Sample Result (SR)	С	Spike Added (SA)	%R	٥	м
Antimony	75 - 125	48.4739		0.4437	В	55.99	85.8	ĺ	P
Arsenic	75 - 125	4.6926		0.4223	В	4.48	95.3	Ī	₽
Barium	75 - 125	223.4655		2.1547	Ī	223.96	98.8		P
Beryllium	75 - 125	5.5079		0.0198	В	5.60	98.0	i	P
Cadmium	75 - 125	5.1542		0.0448	U	5.60	92.0	İ	P
Chromium	75 - 125	24.3080		1.6299	Ī	22.40	101.2		P
Cobalt	75 - 125	55.1556		0.2457	В	55.99	98.1	İ	P
Copper	75 - 125	25.4315		4.0770		28.00	76.3		P
Lead	75 - 125	6.9510		5.0261		2.24	85.9		P
Manganese	75 - 125	59.6277		3.3022	Ī	55.99	100.6		P
Mercury	75 - 125	0.1941		0.0195	В	0.19	91.9		CV
Nickel	75 - 125	53.7392		0.2847	В	55.99	95.5		₽
Selenium	75 - 125	1.0746		0.3695	U	1.12	95.9	Ì	P
Silver	75 - 125	4.9304	Ì	0.0784	U	5.60	88.0		P
Thallium	75 - 125	4.1197	Ī	0.5711	U	5.60	73.6	N	P
Vanadium	75 - 125	58.6584	Ì	1.9677	В	55.99	101.3		P
Zinc	75 - 125	63.7182	ī	6.1301	Ī	55.99	102.9		P

Comments:			
			
	· 	····	

SW-040 MELALS

5A

SPIKE SAMPLE RECOVERY

SAMPLE NO.

Lab Name: COMPUCHEM			Contract:			
Lab Code:	LIBRTY	Case No.:	SAS No.:	SDG No.:	Q2812	
Matrix (so	il/water):	SOIL	Level (low/med):	LOW		
% Solids f	or Sample:	89.3				

Concentration Units (ug/L or mg/kg dry weight): _MG/KG (Spiked Sample

Analyte	Control Limit %R	Spiked Sample Result (SSR)	С	Sample Result (SR)	c	Spike Added (SA)	%R	Q	м
Antimony	75 - 125	47.8191		0.4437	В	55.99	84.6	İ	P
Arsenic	75 - 125	4.6257		0.4223	В	4.48	93.8		P
Barium	75 - 125	225.7260		2.1547		223.96	99.8		P
Beryllium	75 - 125	5.4632		0.0198	В	5.60	97.2		P
Cadmium	75 - 125	5.1349		0.0448	U	5.60	91.7		P
Chromium	75 - 125	24.0073		1.6299		22.40	99.9		P
Cobalt	75 - 125	54.6981		0.2457	В	55.99	97.3		P
Copper	75 - 125	27.9778		4.0770		28.00	85.4		P
Lead	75 - 125	6.4567		5.0261	Ī	2.24	63.9	N	P
Manganese	75 - 125	58.5973		3.3022		55.99	98.8		P
Mercury	75 - 125	0.1909		0.0195	В	0.19	90.2		cv
Nickel	75 - 125	53.1396		0.2847	В	55.99	94.4		P
Selenium	75 - 125	1.1371		0.3695	υ	1.12	101.5		₽
Silver	75 - 125	4.9220		0.0784	บ	5.60	87.9		P
Thallium	75 - 125	3.9547	Ī	0.5711	U	5.60	70.6	N	B
Vanadium	75 - 125	58.1540		1.9677	В	55.99	100.4		P
Zinc	75 - 125	58.3773		6.1301		55.99	93.3		P

Comments:		
	 · · · · · · · · · · · · · · · · · · ·	

9 **ICP SERIAL DILUTIONS**

SAMPLE	NO.	
SSMW10)-OL	

ab Name: COMPUCHEM			Contract:	Contract:			
ab Code:	LIBRTY	Case No.:	SAS No.:	SDG No.: Q2812			
Matrix (sc	il/water):	SOIL	Level (low/med): TOW			

_ 	Concentra	tion	Units: ug/L				
Analyte	Initial Sample Result (I)	С	Serial Dilution Result (S)	С	% Differ- ence	Q	м
Aluminum	3530.29	T	3727.93	+	5.6	<u>1</u>	P
Antimony	3.96	В	18.50	ਹ	100.0	1	P
Arsenic	3.77	В	12.50	U	100.0	1	P
Barium	19.24	i i	20.15	в	4.7	<u> </u>	P
Beryllium	0.18	В	0.50	U	100.0	<u> </u>	P
Cadmium	0.40	U	2.00	υ		 	P
Calcium	625.78	В	660.63	в	5.6		P
Chromium	14.56	i	12.55	в	13.8	1 '	P
Cobalt	2.19	В	3.00	υ	100.0		P
Copper	36.41		34.73	\neg	4.6	L	P
Iron	6852.90		6838.94	T	0.2		P
Lead	44.88	i i	49.90	7	11.2		P
Magnesium	452.74	В	690.19	в	52.4		P
Manganese	29.49	i	29.48	в	0.01		P
Nickel	2.54	В	5.00		100.0		P
Potassium	863.96	В	1764.23	в	104.2		P
Selenium	3.30	י ט	16.50				P
Silver	0.70	U	3.50	וויט	<u>.</u>		P
Sodium	532.59	В	1243.50		100.0	-	P
Thallium	5.10	U	25.50				P
Vanadium	17.57	В	16.92				P
Zinc	54.74	1	66.75	_11	21.9	E	P

PREPARATION LOG

ab Name:	Name: COMPUCHEM		Contract:			
Lab Code:	LIBRTY	Case No.:	SAS No.:		SDG No.:	Q2812

Method: P

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	12/18/02	1.00	100.0
PBS	12/18/02	1.00	100.0
SSMW07-0	12/18/02	1.09	100.0
SSMW07-1	12/18/02	1.08	100.0
SSMW07-4	12/18/02	1.00	100.0
SSMW08-0	12/18/02	1.03	100.0
SSMW08-1	12/18/02	1.07	100.0
SSMW08-4	12/18/02	1.02	100.0
SS-MW09-0	12/18/02	1.04	100.0
SS-MW09-1	12/18/02	1.08	100.0
SS-MW09-4	12/18/02	1.02	100.0
SSMW10-0	12/18/02	1.00	100.0
SSMW10-0D	12/18/02	1.00	100.0
SSMW10-0S	12/18/02	1.00	100.0
SSMW10-0SD	12/18/02	1.00	100.0
SSMW10-4	12/18/02	1.01	100.0
SSMW10D-4	12/18/02	1.09	100.0
SSMW11-1	12/18/02	1.05	100.0
SSMW11-4	12/18/02	1.08	100.0
SSMW11D-1	12/18/02	1.03	100.0
SSMW11D-4	12/18/02	1.02	100.0

PREPARATION LOG

Lab Name:	COMPUCHEM		Contract:	 	
Lab Code:	LIBRTY	Case No.:	SAS No.:	 SDG No.:	Q2812

Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	12/18/02	0.20	100.0
PBS	12/18/02	0.60	100.0
SSMW07-0	12/18/02	0.61	100.0
SSMW07-1	12/18/02	0.69	100.0
SSMW07-4	12/18/02	0.69	100.0
SSMW08-0	12/18/02	0.63	100.0
SSMW08-1	12/18/02	0.67	100.0
SSMW08-4	12/18/02	0.66	100.0
SS-MW09-0	12/18/02	0.69	100.0
SS-MW09-1	12/18/02	0.61	100.0
SS-MW09-4	12/18/02	0.60	100.0
SSMW10-0	12/18/02	0.60	100.0
SSMW10-0D	12/18/02	0.60	100.0
SSMW10-0S	12/18/02	0.60	100.0
SSMW10-0SD	12/18/02	0.60	100.0
SSMW10-4	12/18/02	0.69	100.0
SSMW10D-4	12/18/02	0.62	100.0
SSMW11-1	12/18/02	0.65	
SSMW11-4	12/18/02	0.68	100.0
SSMW11D-1	12/18/02	0.61	100.0
SSMW11D-4	12/18/02	0.60	100.0

14

ANALYSIS RUN LOG

Lab Name: COMPUCHEM		Contract:	
Lab Code: LIBRTY	Case No.:	SAS No.:	SDG No.: Q2812
Instrument ID Number: P4	· · · · · · · · · · · · · · · · · · ·	Method: P	
Start Date: 12/18/02		End Date: 12/19/	02

EPA Sample	D/F	Time	 % R	L										Ana	aly	tes	3										
No.	D/1	111116		A L	S B	A S	B	B	C D	C A	C		Ω C	F E		M G	M N	Ð H	N	K	S	A G	N A		V	Z N	
80	1.00	1321		х	X	x	x	х	x	х	x	x	х	x	х	x	х		x	x	x	x	x	x	x	x	H
S	1.00	1329				İ			x	۰	x	+	x	-	х	_			х	-		x	-	x		х	ļ—
S	1.00	1337		х			1	<u> </u>	٠	x		T	Ï	х	-	x		Н		H	1		+-	1		 	H
8	1.00	1343				х	x	х		i	<u> </u>	x	i				х				一	 	 	 	x		H
S	1.00	1349					i	<u> </u>		i		Ē				_			-	x	 - -	İΤ	x	\vdash		<u> </u>	H
S	1.00	1354			х							T		-				Н			\vdash		i	1			H
ICV	1.00	1400		х			х	х	x	x	x	x	x	x		x	x	_	x	x	 	\vdash	x	\vdash	x	x	H
ICV	1.00	1408							Т		1	<u> </u>					_				\vdash		H	\vdash	1		卜
ICV	1.00	1416			x	х		<u> </u>		i	 		 		х	_					x	х	┢	x	\vdash	Н	┢
ICB	1.00	1425		х		х	х	х	x	х	x	x	x	x		х	х		x	х		1	x		x	x	H
ZZZZZZ	1.00	1433		П																		-		1			卜
ICSA	1.00	1441		х	х	х	х	x	x	х	x	x	х	x	х	x	х		х	x	x	x	x	х	¥	x	一
ICSAB	1.00	1449		х		х		х									х		x					х		х	┢
ccv	1.00	1457		х	х	х		х				•		_	х	_	x	_	х					x		х	一
CCB	1.00	1505		х	_	х		х	_						х		х	_	х					х		х	┢
LRS	1.00	1515		х	х	х	х		_	х					х	_	х		х					х		Х	Н
ZZZZZZ	1.00	1522		Н						Н				1.				\dashv				 			T.	-	一
ZZZZZZ	1.00	1530										Н				ᅱ		-				┝	 		Н		-
ZZZZZZ	1.00	1537				П					<u></u> .	Н		_			-	\dashv		_			-				
ZZZZZZ	1.00	1545								 		Н	1		Н	_	-	-				_		<u> </u>	Н		-
ZZZZZZ	1.00	1552								<i> </i>					\vdash	\dashv	\dashv	一							Н		r
ZZZZZZ	1.00	1600		\Box	寸					H			-1			\dashv	\dashv	一	\dashv		_	_		Н	Н		1
ZZZZZZ	5.00	1608			_		1		_			М	┪			┪	\dashv	\dashv				\vdash	\vdash		Н		-
ZZZZZZ	1.00	1615			寸									_		┪	7	~	_								Г
ZZZZZZ	1.00	1623			寸		\dashv			Н	-				-	┪	1	-		_				-		7	_
CCV	1.00	1630		x	x	х	\mathbf{x}	x	x	x	x	v	v	v	x	x I	x	-	x	X	×	X	X.	×	х	X	_
CCB		1638				X									x		x		x	_				x	_	x	_
ZZZZZZ	1.00							۳		<u> </u>			쉬	Ĥ			-	-	\dashv	끡		*	-				_
ZZZZZZ	1.00	1653			1		一	\dashv					┪	┪		-	-	\dashv	ᅥ	ᅱ				Н		_	_
ZZZZZZ	1.00	1701		寸	\dashv	1	i	\neg	-		_		+	ᅥ	ᅥ	+	ᅥ	-	-	_						┪	i
ZZZZZZ	1.00	170B		\dashv			ᅥ	_	_		_		ᅥ	-	ᅱ	┪	-		-			-	Н		H	ᅱ	_
ZZZZZZ	1.00			\dashv		一	-1	_	-		-	H		-1	┪	-	ᅥ	+	-	4	_				Н	-	_
ZZZZZZ	1.00			十		ᅥ	-	-	-1	-	-	_	-	{	ᅥ		ᅥ	-+	ᅱ		-1		Н	-	\vdash	ᅫ	_
22222	5.00			-+	-+	- i		닉		-	_		-	+	ᅱ	\dashv	┥	ᆉ		-			\sqcup	Н	\vdash	{	
ZZZZZZ	1.00			\dashv	+		\dashv	\dashv			\dashv	닉	+	+	ᆛ	\dashv	\dashv	\dashv	-1	-			Щ		\dashv	ᅥ	_
ZZZZZZ	1.00			+	+		-	-		+	-1	-	\dashv	+	+	+	+	+	+		\dashv		Н	Н	닉	\dashv	
ZZZZZZ	1.00			\dashv	\dashv	<u> </u>	\dashv		ᆛ	ᅥ			_	\dashv	-	+	ᆛ	+	{			\dashv	Ц	Ц	\dashv	-1	_
CCV	1.00			x	J	-	ᆉ		릚			<u> </u>				4	_	_ļ	4	_ļ	_ļ	ļ	Щ		x	_	7

14

ANALYSIS RUN LOG

Lab Name: C	OMPUCHEM		Contrac	t:		
Lab Code: L	IBRTY	Case No.:	SAS No.	:	SDG No.: Q2812	
Instrument :	ID Number:	P4	Method:	P		
Start Date:	12/18/02	·	End Dat	e: <u>12/19/02</u>		

		 	· · · · · · · · · · · · · · · · · · ·																								
EPA	[7	Ana	ıly	te	s										
Sample No.	D/F	Time	% R	A L	S B	A S	1	B	C				C			M G		H G	N	K	S E	A G	N A	T	v	Z N	С
CCB	1.00	1809		х	х	х	x	X	x	х	х	х	х	х	х	X	х		х	х	x	х	х	x	х	х	Γ-
ZZZZZZ	1.00	1816					Ī					Ì															Γ
ZZZZZZ	1.00	1824									1											i					Γ
ZZZZZZ	1.00	1831								Ī	Π						Ì					Ī					Γ
ZZZZZZ	1.00	1839					Ī		Г	Ī	Ì												П				Γ
ZZZZZZ	1.00	1847		П			İ	Ì	Γ		i -						Ì					i	П				Γ
ZZZZZZ	1.00	1854		П			i			ì							П						П		П		Г
ZZZZZZ	1.00	1902							Ī																	П	Γ
ZZZZZZ	1.00	1909							1				П														_
ZZZZZZ	1.00	1917									Ì					_	П					_			Н	П	_
ZZZZZZ	1.00	1924							Г										Н							Н	_
CCV	1.00	1932		х	х	х	х	x	x	х	х	х	х	х	х	х	x		x	x	х	х	x	X	x	х	_
CCB	1.00	1940		х	х	x	х	х	_	х			_		Ī	_	х		х			_		х	_	_	_
ZZZZZZ	5.00	1947								i							H	_	\dashv	_						Н	_
ZZZZZZ	1.00	1955							1	П		П					H			_							_
ZZZZZZ	1.00	2002							<u> </u>	П																	_
ZZZZZZ	1.00	2010							Ħ				i			_		~-		┪	_			一			
ZZZZZZ	1.00	2017								m			\exists			\exists			ᅥ		_						_
ZZZZZZ	1.00	2025			\neg					П					ヿ			_	\dashv	긥					一		<u> </u>
ZZZZZZ	1.00	2033							Г	H			ᅡ	_				ᅥ	-	ᅥ			H		-		_
ZZZZZZ	1.00	2040	****	ΠÌ	T				Т	H			┪				\Box	\dashv		寸				-	-	-	_
ZZZZZZ	1.00	2048								П			7	1						_			1	寸	7		—
ZZZZZZ	1.00	2055		\Box	T					П			\dashv	\rightarrow	\neg			ᅦ	\dashv	-			1	┪	ᅥ	-	
CCV	1.00	2103		х	х	x	X	х	x	x	х	x	х	\mathbf{x}	\mathbf{x}	\mathbf{x}	х		x	x	x	х	х	х	Y	х	-
ССВ	1.00	2110		х			x	х			х		x	\rightarrow	x		x	\dashv	х			x		_	-+	х	
ZZZZZZ	1.00	2118				T					一	1	Ï		_	ᅥ	-1	ᅥ	_								-
ZZZZZZ	1.00	2126		H		一						i		寸		ᅥ		_	\dashv	-	-		ᅥ	\dashv	-	\dashv	-
ZZZZZZ	1.00	2133	•••		T	7	i					H		ᅥ	寸	\dashv	\dashv		\dashv	-			ᅥ	\dashv	┪	一	
ZZZZZZ	1.00	2141			T	i						ᅥ	\dashv	ᅥ	一	-	-				ᅦ	\dashv			+	-	-
ZZZZZZ	1.00	2148			7	Ti					\neg		7	寸	\dashv	┪		┪	\dashv	+	_	-	ᅥ	ᅥ	-	7	
ZZZZZZ	1.00	2156			\dashv	ᄀ	T			Н		-	寸	-	1	_	ᆉ	ㅓ	┪	ᆛ	-		-	-	-1	+	-
ZZZZZZ		2203		\Box	一			ᅱ		Н	၂		寸	-	ᆉ	_	\dashv	ᅥ	┪	- 	-	ᅱ	-	-	\dashv	+	-¦
ZZZZZZ		2211		H	-1			_	Н		\dashv	-	寸	-	+	一	\dashv	-	1	ᆛ	ᅦ	\dashv	{		+	┪	-¦
ZZZZZZ		2219			寸			ヿ	Н	Н	-	-	+		+	ᅥ	+			1	긤	ㅓ	 	-	\dashv	+	-¦
ZZZZZZ		2226	·		寸	ᅥ					1	_	+	ᅥ	ᅥ	+	+	┪	┪	+	┪		+	_	+	1	
CCV	1.00			х	\mathbf{x}	хl	х	x	ж	χÌ	χ	 X	$\frac{1}{x}$	$\frac{1}{\mathbf{x}}$	$\frac{1}{x}$	$\frac{1}{x}$		ᆉ	뉛	اx	$\frac{1}{x}$	$\frac{1}{\mathbf{x}}$	$\frac{1}{\mathbf{x}}$	x	v	ᆔ	-¦
ССВ	1.00			х	\mathbf{x}	$\frac{1}{\mathbf{x}}$	x	X	x	x	x	<u> </u>	;	$\frac{1}{x}$	x	$\frac{1}{x}$	$\frac{x}{x}$							x			-
ZZZZZZ	1.00		-		_	ᆉ		一			-			쒸		긤				1		<u> </u>			升		_,¦

ž

14

ANALYSIS RUN LOG

Lab Name: COMPUCHEM		Contract:		
Lab Code: LIBRTY	Case No.:	SAS No.:		SDG No.: Q2812
Instrument ID Number:	P4	Method:	<u>P</u>	
Short Date: 12/19/02		End Date:	12/19/02	

	<u> </u>			T											1												
EPA Sample	D/F	Time	% R	<u> _</u>								_		Ana					_			_		_	r 1		ᆜ
No.		1111111		A L	S	A S	A		C D	C A	R	C O	ŭ	F	В	G	И	G	I	K	S E	A G	N A	T L	ľ	Z N	C N
22222	1.00	2256																		٦						I	╗
ZZZZZZ	1.00	2304																									_
ZZZZZZ	1.00	2312																									\equiv l
ZZZZZZ	1.00	2319																									_
ZZZZZZ	1.00	2327																									_
ZZZZZZ	1.00	2334																						l			_
222222	5.00	2342																						l			\equiv l
ZZZZZZ	1.00	2349		ÎΠ																							\equiv \mid
ZZZZZZ	1.00	2357																									\equiv l
ccv	1.00	0005		x	х	x	х	X	X	x	X	х	x	x	x	x	X		x	X	X	X	x	x	х	X	\Box I
CCB	1.00	0012		x	х	x	х	х	х	x	Х	х	х	х	X	х	Х		Х	Х	X	х	X	х	х	х	
ZZZZZZ	1.00	0020								П																	
ZZZZZZ	5.00	0027		Ī																							\square
22222	1.00	0035		Ī																				1			
22222	1.00	0042																						<u> </u>			
ZZZZZZ	1.00	0050																						Ī		П	_
ZZZZZZ	1.00	0058					Ī																Г	Ī		П	,
ZZZZZZ	1.00	0105		T	İ																				Ī	П	_ i
ZZZZZZ	1.00	0113												İ		i							Г	Ī		ΠÎ	-i
ZZZZZZ	1.00	0120		Π	İ					ĺ							ĺ							Ī		П	
ZZZZZZ	1.00	0128			Ì																		Г	Г			i i
ccv	1.00	0135		x	х	х	х	х	Х	х	X	x	x	х	Х	х	x		х	X	х	х	х	x	х	x	\Box
CCB	1.00	0143		-	х		_	_	_	X				х			X		x	х	х	х	x	x	х	X	\Box
ZZZZZZ	1.00	0151		Ī			Ì																Г	Ī		\Box	
ZZZZZZ	1.00	0158		Г								П												İ			
ZZZZZZ	1.00	0206																					Г	Î			
ZZZZZZ	1.00	0213					İ							П							Π			i			
ZZZZZZ	1.00	0221		T			Ī			i	Г					П							T	i			
ZZZZZZ	1.00	0228		T		i —		 										П					Г	亡	T	П	
ZZZZZZ	1.00	0236	i	 			i	┢								П		П				Г	T	T	Τ		
ZZZZZZ		0244	<u> </u>	T	Г		i	extstyle ext		İ				П		П			П	_			⇈	i	1		
ZZZZZZ		0251	l	t	1		İ		Г	i i						П		П			Ì		i	İ	İ	П	
ZZZZZZ		0259		1	I^-		Ī	\vdash				Г		П		П		П	П		Ī		T	Π		П	
ccv		0306		x	х	x	x	х	х	х	х	х	x	х	x	x	х		х	х	x	х	x	x	x	x	Γ
ССВ		0314		x			х										х	_	х						x		
ZZZZZZ		0322	i	T	i –	Г	İ		Τ	Ī	Ī		- ا				<u> </u>	П		<u> </u>	İ	Τ		i	1		
ZZZZZZ		0329	 	T	-			 	t-	\vdash	-	T	T	Н	H	Н	┢		一	Т	\vdash	1	\top		T	Н	
ZZZZZZ		0337	 	+-	 	 		\vdash	\vdash	+	 	\vdash	_	-	<u> </u>	Н		-		├-	 	├	+-	+	+	\vdash	4

ANALYSIS RUN LOG

Lab Name: COMPUCHEM				 .				c	:on	tra	ıct	:															
Lab Code: LIBRTY		Case	No.:					8	:AS	No).:						5	SDG	N	o.:	2	28	12				
Instrument ID Number:	P4	<u> </u>						M	let	học	1:	_	P														
Start Date: <u>12/18/02</u>								E	nd	Da	ıte	:	12	/1	9/	02			_								
EPA	- /- I										-		_	Ana	ıly	tes	3						-				\neg
Sample No.	D/F	Time	% R	A L	S	A S	B A		C D	C A	C R	- 1	C	-	P B		M N	H	Ŋ	ĸ	S	A G	N A	T L	٧	Z N	Ç N
PBS	1.00	0344		х	x	x	х	x	x	х	x	х	x	x	Х	x	x		х	х	x	x	x	x	x	х	┪
LCSS	1.00	0352		х	х	х	х	х	х	х		х		х	x	X	x		х	Х	х	х	х		х	х	-i
SSMW10-0	1.00	0359		х	х	х	х	x	x	x		x		х	X	_	х		х		х	х	х	_	x	х	-i
SSMW10-0S	1.00	0407		Ī	х	х	х	X	х		X		х		х		х		х		x	x			: :	х	-i
SSMW10-0SD	1.00	0415		Г	x	х	х	х	x	-	x		x		х		X		х		Х	_		-	x	х	-i
SSMW10-OD	1.00	0422		х	х	х	х	х	х	x	х	_	х	х	х	X	x		x	х		x			_	x	-i
SSMW10-0L	5.00	0430		х	X	х	Х	X	X		х		х	х	х	х	х		х	х	х	х			х	x	-i
ccv	1.00	0437		х	Х	х	х	X	х	x	х	х	х	х	х	X	x		х	Х	x	X			x	х	-i
CCB	1.00	0445		х	Х	х	х	X	x	x	x	_		х	х	_	х		x	_	_	х	_		x	х	٦¦
SSMW10-0A	1.00	0452											ت		x					_				х	Ħ	1	-¦
SSMW07-0	1.00	0500		х	x	х	х	х	х	x	х	х	х	х	х	x	х		x	x	х	х	x	\mathbf{x}	x	х	-

 $\mathbf{x} | \mathbf{x} | \mathbf{x}$

x x x

 $\mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x}$

 $\mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x}$

x x x x

 $\mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x}$

 $\mathbf{x} \mid \mathbf{x} \mid \mathbf{x} \mid \mathbf{x}$

X

x

Х

X

10

SSMW07-1

9SMW07-4

SSMW08-0

SSMW08-1

SSMW08-4

SSMW11-1

SSMW11-4

SSMW11D-1

SSMW11D-4

CCV

CCB

CCV

CCB

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

0508

0515

0523

0530

0538

0546

0553

0601

0608

0616

0623

SSMW10-4 1.00 X $\mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x}$ 0631 $\mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x} |$ X X x SSMW10D-4 1.00 0639 $\mathbf{x} | \mathbf{x} | \mathbf{x}$ $\mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x}$ X x | x | x | x | x | xSS-MW09-0 1.00 0646 X $\mathbf{x} | \mathbf{x} | \mathbf{x}$ X $|\mathbf{x}|\mathbf{x}|\mathbf{x}|\mathbf{x}|\mathbf{x}|\mathbf{x}|\mathbf{x}$ x|x|x|x|x|x|xX X SS-MW09-1 1.00 0654 X $\mathbf{x} | \mathbf{x} | \mathbf{x}$ X x | x | x | x | x| x | x | x $\mathbf{x} \mid \mathbf{x}$ Х хх X X Х X SS-MW09-4 $x \mid x \mid x \mid x$ 1.00 0701 X $\mathbf{x} | \mathbf{x} | \mathbf{x}$ X $\mathbf{x} \mathbf{x}$ х XXXXX X X Х Х 1.00 X 0709 $\mathbf{x} | \mathbf{x} | \mathbf{x}$ X $\mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x}$ х x Х Х 1.00 X 0717 xxxx $\mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x}$ X $\mathbf{x} | \mathbf{x} |$ $\mathbf{x} \mathbf{x} \mathbf{x}$ X

X | X | X | X | X | X | X | X

 $\mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x}$

 $|\mathbf{x}|\mathbf{x} |\mathbf{x}|\mathbf{x}|\mathbf{x}|\mathbf{x}|$

 $|\mathbf{x}|\mathbf{x}|\mathbf{x}|\mathbf{x}|\mathbf{x}|\mathbf{x}|\mathbf{x}$

 $|\mathbf{x}|\mathbf{x}|\mathbf{x}|\mathbf{x}|\mathbf{x}|\mathbf{x}|\mathbf{x}$

 $\mathbf{x} \mathbf{x} \mathbf{x} \mathbf{x} \mathbf{x} \mathbf{x} \mathbf{x} \mathbf{x}$

 $\mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x}$

 $\mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x}$

X | X | X | X | X | X | X | X | X | X

X

х

 \mathbf{x}

X

Х

х

X

X

X

X

Х

X

X

Х

X

Х

x

X

x x

X X X X X X

 $\mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x} |$

 $\mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x}$

 $\mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x}$

 $\mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x} |$

x x x x x x

 $\mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x} |$

X X X X X X

 $\mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x}$

 $\mathbf{x} \mathbf{x} \mathbf{x} \mathbf{x} \mathbf{x}$

 $\mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x} | \mathbf{x}$

X

Х

X x

X

X

14

_____Contract:

ANALYSIS RUN LOG

Lab Name: COMPUCHEM						_	—	C	ont	;ra			_														
Lab Code: LIBRTY		Case	No.:	_			_	S	AS	No	. :	_		_		_	5	DG	No	.:	<u>Q</u> :	281	2				
Instrument ID Number:	<u>v3</u>							M	eti	od	:	_	<u>CV</u>			_											
Start Date: 12/19/02	!							E	nd	Da	te:		12	/19	9/0)2			_								— 1
EPA	I			I^-									,	lna	ly			<u> </u>							_		
Sample	D/F	Time	% R		3	A S		B	D D	C	C R	C	C	F	P	M G	M	H G	N	K	S	A G	N A	T			C
No.	1			L	В	S	A	L	٦	^		۲	4	_		_	_			_						\dashv	-
30	1.00	1030		<u> </u>	<u> </u>	<u> </u>				Ш		Ц		_			┝	X	Н					_	┌╌┪	긤	
\$0.2	1.00	1032		╀-		1_	<u> </u>	-					Н			_		X		Н	┌┤	┟╌┦	H	-	H	\dashv	<u>-</u> ¦
\$0.5		1035		丄	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>			\sqcup	Ц		_	<u> </u>	L	X	H	닏	⊢┤	屵	H	Ш	Н	-	⊢¦
S1		1037		_	<u> </u>	<u> </u>	Ļ.	ļ	<u> </u>				Ш		<u> </u>	-	⊢	∔—	-	Н	H	⊢	H	 	┝╌┩	\vdash	⊢¦
S5		1040	<u> </u>	\bot	<u> </u>	<u> </u>	Ļ_	↓_	Ļ			H	Щ	_	-	┡	╀	X	-	H	Н	├		┞	H		l-¦
S10		1042		┷	<u> </u>	┞_	<u> </u>	Ļ	Ļ	Ļ		Ļ	Ц	<u> </u>	├-	ļ	Ļ	X	<u>. </u>	╀╌┦	┞┈	⊬	┞	 	H	Н	├╌¦
ICA	1.00	1045		_	<u> </u>	┡	Ļ	<u> </u>	Ļ	Ļ_	<u> </u>	ļ	<u> </u>	<u> </u>	_	<u> </u>	╀	X	-		는	╀	┞	<u> </u>	H	H	۲i
ICB	1.00	1047	<u> </u>	4_	Ļ	$oldsymbol{oldsymbol{oldsymbol{eta}}}$	ot	╀-	┞-	Ļ	<u> </u>	<u> </u>	٢	Ļ.	┡	┡	╀	X	•	├-	뉴	╀	 	 	늰	┞	⊢¦
CRA	1.00	1050		ᆜ_	<u> </u>	<u> </u>	<u> </u>	<u> </u>	╀	Ļ	L	L	<u> </u>	Ļ	ļ.	ļ.,	╀	X	-	├-	 	╀	-	├-	├	∐	├┤
CCV	1.00	1052	<u> </u>		Ļ	1_	<u> </u>	<u> </u>	Ļ	Ļ	<u>L</u>	L	<u> </u>	_	-	╀╌	╀	X	+	╀─	 - -	╀╌	┝	<u> </u>	╂╌	╁	┾╏
CCB	1.00	1054	<u> </u>	上	上	L	_	1_	Ļ	Ļ	<u>L</u>	ļ_	Ļ	<u> </u>	<u> </u>	ļ.,	Ļ	X	-	╀╌	 	╀	 	<u> </u>	╀╌	╀	┼-!
PBS	1.00	1057			<u>L</u> _	1_			_	L	<u> </u>	L	_ـــــــــــــــــــــــــــــــــــــ	↓_	↓_	↓	1	X	+	╄	Ļ	╄	╀	Ļ	┼-	╀	 -
LCSS	1.00	1059	{		L		L	1	_	1	L.	<u> </u>	<u> </u>	L	<u> </u>	<u> </u>	Ļ	X	+-	<u> </u>	ļ_	Ļ_	Ļ.	 	 -	╀╌	 -
W10-0	1.00	1101		1		\perp	1_	1	┸	L		<u> </u>	丄	L	↓_	Ļ	<u> </u>	<u> </u>	+	↓_	上	↓_	1	ļ.,	┼-	╀	
.1W10-0D	1.00	1103	-	Т		1_		1_	L	L		_		Ļ	Ļ	Ļ	Ļ	<u> </u> ×		Ļ	Ļ	丄	ļ.	ᆜ	 	뉴	
SSMW10-0S	1.00	1106				1_	1_	1_			L	L		<u> </u>	\perp	Ļ	Ļ	X	+-	Ļ	Ļ	Ļ	╀-	Ļ	十	Ļ	
SSMW10-0SD	1.00	1108						L	L	L	<u>L</u>		┸	L	1_	Ļ	Ļ	<u> ></u>	4-	<u></u>	ļ_	╄	4	ļ.,	十	Ļ	╀-
SSMW07-0	1.00	1110	Ī			1			\perp	<u> </u>	<u></u>	┖	L	L	\downarrow	┺	┶		-	╄	Ļ_	╄-	╀	<u>ļ</u> _	┼	╀	+
SSMW07-1	1.00	1112		T	Ι.	1_	L			L	1	┸		<u> </u>	\perp	ļ	L	13	+-	┷	上	Ļ	Ļ	<u> </u>	╀	 	Ļ-
SSMW07-4	1.00	1114	1	П			L	L	\perp	上	L	L	1	<u> </u>	\perp	L	┸		+-	\bot	丄	丰	1	Ļ	+	╁-	╀
SSMW08-0	1.00	1117					Ī				1	\perp	L		上	\perp		13		ᆚ_	丄	<u>ļ</u>	<u> </u>	<u> </u>	╀-	 	Ļ
CCV	1.00	1119	i –		T	T	T			1			L		L	\perp				丄	丄	1	┸	Ļ	╀	丰	╄-
ССВ	1.00	1121			T	\top	T	\top	T	1			1_	_	⊥.		\perp		<u>\</u>	_ļ_	丄	丄	ļ	Ļ	1	丰	4_
SSMW08-1	1	1124	1		Î	T	Ī	Т	T	T	Ī		1_		L				<u> </u>	Ţ	丄	丄	\downarrow	<u>_</u> _	丄	4_	丰
SSMW08-4	1	1126		\top	丅	7	T	7			T		\perp		1_	1			K		\perp	丄	Ļ	_Ļ_	丰	╀	╀-
SSMW11-1		1128	1		1	T	T		T	Ī	T				\perp	\perp			x	丄	L		Ŧ	_إ_	丄	╀	丰
SSMW11-4		1130	1	\top	丁	T	Ī	T	Ī	Ī	Ī		L					_	X	丄	1	ᆚ	1	Ļ	1	 _	
SSMW11D-1		1132		_	1	丁	ī	T	T	T		Ι			\prod				x	\perp			\perp	ļ	1	1	丰
SSMW11D-4	1	1135			ī	T	T		Ī	T	T	T	1.		\perp				X	\perp	丄	\perp	\perp	Ţ	4	1	丰
SSMW10-4		1137		十	十	Ť	T		T	ī	T		\perp	\prod	\perp				X	丄	1	\perp	\perp	L	丄	ᆚ	丰
SSMW10D-4		1139		\top	丁	1	1	\neg	Ţ	T	1	J.	Ī	\prod		\int	\int	\perp	Χ		\perp	\perp	Ţ	_Ļ_	_Ļ_	丰	4
SS-MW09-0		0 1141		十	一	1	T	$\neg \vdash$	T		T	J	Ī	\int	Ī	I	$oldsymbol{\mathbb{I}}$	\perp	ΧŢ			\perp	_	丄	丄	丄	1
SS-MW09-1	1	0 1144		_	\top	\top	丁	\neg	T	Ī	Ī	1		$oldsymbol{\mathbb{I}}$		\prod	$oxed{I}$		Χ	\perp	\perp	\perp	\perp	_	<u>ユ</u>	丰	
CCV		0 1146		十	1	T	亣	1	1	Ī	T	T	Ī	T		Ī	\prod	\prod	Х		$oldsymbol{ol}}}}}}}}}}}}}}}$		\perp	1	\perp	\perp	丄
CCB		0 1148		十	+	十	+	1	1	i	十	十	ī	T	1	Ī	Î		X	floor	Ī	$oldsymbol{\mathbb{I}}$	1	\perp	丄		丄
SS-MW09-4		0 1150			十	\dagger	十	十	+	寸	T	1	1	T	T	T	Ī	Î	x	T	Ī	_[\perp	\perp	\bot
		0 1153		十	十	+	十	十	寸	T	T	T	寸	7	T	7	1	\top	T	T	Ī	T	\int	Ī	$oldsymbol{oldsymbol{oldsymbol{oldsymbol{\Box}}}$	$oxed{oxed}$	丄
ZZZZZZ		0 1155		\dashv	+	十	$^{+}$	十	+	十	十	†	Ť	1	1	寸	T	寸	T	T	T	T	T	Ī	T	_[
7.Z.Z.Z.Z		0 1133	ــــــــــــــــــــــــــــــــــــــ						_1.					Д.					_1-								_ 5

ANALYSIS RUN LOG

Lab Name: COMPUCHEM																											
Lab Code: LIBRTY		Cas	e No.:							ntr			_												_		
Instrument ID Number:	_ v 3		10.	_						S N		•	_					SD	G 1	1 0.	:	Q21	812	<u> </u>			
Start Date: 12/19/0	2									ho				<u>v</u>													
		-						1	End	Da	te	:	1	2/:	9/	02											
EPA Sample No.	D/F	Time	% R			·								Ana	aly	te	 8		_								_
ZZZZZZ				A		A S	B	B E	C	C A	C R	CO		F E		M G	М	Н		K	,		N	T	v	z	
ZZZZZZ	1.00	1157		+-	-	-	Н	-					Ľ		3	G	N	G	I	1	E	G	A	L		N	N
22222	1.00	1200					\vdash	-		4		_	4		_								寸	寸	寸	+	+
	1.00	1202		T	Н		┝┤		{	4		_ļ	_										寸	\dashv	-	+	-
ZZZZZZ	1.00	1204						{	4	4	_	_ļ	4	_				\neg		i	7	\neg	十	7	+	+	-
ZZZZZZ	1.00	1207				{			ᅷ	4	4		\perp	\perp			Ī	Ī	Ī	i	٦	7	十	十	+	┿	-¦
ZZZZZZ	1.00	1209		├┼	-+		-+	-	4	Ļ	4	\perp	┙	\perp	\Box	T	T	\neg	7	寸	7	7	十	十	+	┿	-¦
ZZZZZZ	1.00	1211		┝╌┤	-+	+	-	4	Ļ	ㅗ		\perp	\perp	$oxed{\int}$	T	T	T	\exists	7	7	7	+	十	+	┿	+	-
CCA	1.00			┞┼	+	<u> </u>	+	_	Ļ		4	\perp		$\Box I$	T	T	7	7	7	T	+	十	+	+	+	+	- [
CCB		1216		-	+	+	+	+	+	+	+	4	Ţ	\downarrow	7	1	-	×	士	1	1	1	+	+	+	+	:
								L	ᆚ	ᆚ_	ㅗ		丄	_1		1	-	X	1	- 1	T	T	T	\top	7	+-	1

	COMPÜCHE		- of I ihe	rty Analyti	cal		Lake			
	COMPTICHE	M a Diviso		G LOG						_
	COMPLECTO	RCIAL R	ECRIATION	S/RFA /2	63	Lab Instru	etions.		<u>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</u>	
	COMM	4-02	PP			Tap mann	CHOTTA		3	_
	Rec'd Date: 12	PS		Tel To	4					Ĺ
Permer	Courier: U. Airbill No. (2	130 09 8 ZZ	207050	100						-
pjent: Malcon Permise.	Airbill No.	1	0515	Use fa C	36					-
roject: 80 /2]	¥	0480							
niote: (220/2]									
ogin No. Gyv N			ــــا		Desar	neters				
1- applitable		· ·			FRIE)		1	l l	
AT Verbel					i	1		1	1	
e stille				1	ļ	1		ł	\ \	
Cooler Rec'd By:		'		}	!			1	ı	
Cooler Rosin By:		!		1	1	Į	,	1	1	
simple 3,5 741 (Glo & chlorine?	3	1	\		1	1 1.	ł	ł	İ	
Cooler Ree u 27: Sample Login By: Temperature: 3.5 4.7 °C Cyanide Samples checked for sulfide & chlorine? Y (NA)]	200	ł .	PH	Brywti	{	i	į	_
Cyanide Samples checked for subscriptions (Cyanide Samples checked for chloring) Phenol Samples checked for chloring? N N N N N N N N N N N N N		ļ	Pest	laa.	Toc	\	No. &	No. &	P No. &	
Phenol Samples Checkers Received in Good Condition? N	}	VOA	Suber 1	metals		No. & P	Туре	H Type	H Type	
If no, explain:		No. & P	No. &	No. & P	Type 3	H Type H	 		+	
	Date Military	No. & P	Type	1 1990	+	1.40	1		 	
Client ID Q Matrix	20 02 Time		1.800	1.49	1.403	130	T		 	_
CompuChem Client ID C	12 03 07 30	-	11.80	1	10	- ├── ├ ─	1		<u> </u>	
	09.35	Ti° 上	1		T L L				\top	
028/2-1 55 mul 2-0					1-1-1				+	
2 1 1 -	09:40				╼╂╼╼┼					
3 4-4	11 30	2			┸					
140.0	11:35	<u>- </u>	╼╁╼╌╂╼╌╅	-	1	╼╁╼╌┼				
4 MO08-0	1 13	- 1 1 1						1		
		- 3 L L		╼╌┼╌╌┼	-			 	1	
6 2-4	14.5	21-1		·	{					
3 MW11-1	14.5	51				1-1-17	1			
	1 4 5		1							
		1 1 1	I V		13.1	3,400				
A WID-I	1 14:5	7	0.0	3.40	3.403	3.3.3	1			
L	13:3	09.5100	- 3,8bg	2.0	3/200			T1 _		
16		2653000	21807	215-3	1.402	1.40		1		
11 MW10-0 X	13.4		1.800	1.400	3.40	3.44		-+		
1/2 -4	13.4	2 3.50	1300	3.45	3.10	1	l I			
	15 3	7 9.594		1	1			+		_
	-	1-40-lus		+-			-	1	1	
R 28/2-1 MW10-1 WA	10		 - - - - 			++				
528/2-1 TRIP BLANK WA	1	02 12/0	1/12	1-1		+-	<u> </u>			
528/2-1 TRIP BLANS	1	ny /2/0	7-1-	1		+				
	1-1-12	41/	1-1	+]		 - - - - - - - - - 			
	J				1				rll - 6/28/01) (°C
					OTHER_					
Container Type Abbreviations: 40mL(40mL vial) AL(Ambe	+		· Disepte 250	P(250mL Plastic) UIREN					
		500P(500m	T LIBBUCK							

a division of Liberty An 501 Madison Av Cary, NC 275 1-800-833-50 BOX #1 1. Surface Water 2. Ground Water 3. Leachate 4. Rinaste 5. Soll / Sediment / S	slytical Corp. enue 13 97 6. Trip Blank 7. Ol 8. Waste 9. Otherkudge	Carrier : Airbill No Sampler	0. : Name :6 BOX #2 A B. C. D.	Perly HCI+lce HNO3+lc NaOH+I	Perlas F. Ice G. G. Ott Ice H. Nat Ice I. ZnAc	Only Mar_	Pul Ne Sam	IODY Int Addre Town SIRVET CIGOG Pler Signa BOX #3	SS A	lalco e d NG	1. VS	# G	Bex		Tele Sam	phone phone	O. 068036 PACE No. 757 875-8700 complete? Y of (see Note 1) cific (PS) or Batch (B) QC 7 Box NS C. CLP 390 T. TCLP S. SW-346 W. CWA 800-series O. Other
Sample ID (9 characters maximum		1 : So	Assertic	Filtered / Unfiltered	Expected Conc.	Method	No. of Bottles	Use for Lab QC (MS or DUP)	SVOC	Peetfolds PCB	Herbioldie	Matte Mercury	No.	0&G/TPH			Remarks / Comments (see Notes 2 & 3)
S MN & 7- B		1:30	5 F	= 4		5	7	77		7.		#	#	H	$\downarrow \downarrow$		Svoc/pest/pub
5 MW87-1	1213 9	:35	5 F	V			7	14	┵┵	' !'.	╀┪	7	1	-	+-1	44	all in one bottle
15 -MW8/2-4	 							7	1	4	╁	+	1	-	++		
5-MN07-4	12139	:40 5	F	- U		5	7	4	1.	+-	 	;-	╂╦╂		╁╁	44	TUC + pH are
5-MN08-0		:							1-1	+	 	' +-	╀+	+	╁┼	44	together
▝▘ ▘▘		:30 5	F	И		5	7	4	1,	+,	-	+	- -	+	-	++	
+		:35 5	· F	и			7	4		1,1	-+:	+-	-	+-	₩.	11	
5-4408-4	213 11	40 5	P	И			7	u	;	 		4-1	4	4-4	-	 	
	11						+		-	+++	#	+	4	4-4	4		
ents Special Instructions: D: Received in Good Condition?	M 44											Ц	\bot	\perp			2
Relinquished By: (Slg)		scribe Pro															Temperature 4,7 °C
npeny Name: Mal Colm P		Date:	1647		pulshed By: ((Sig)			Dec	be:		#3 R	elinaui	sheri i	By: (Sig		
Received By: (Sig) Li Sch	iden			Company	ved By: (Sig)				Tim	æ:			peny N		J. (OK		Date:
npany Name: Comp	1. 64. 00.			Company	by. (31g)				Dat	0 :		_	ocetve	_			Time:

Time:

Note (1): If "N" lab will hold samples to await remainder of project-maximizing batch size and minimizing QC ratio; if "Y" lab will begin processing batches now. Note (3): All lab copies of data destroyed after three years.

COMPUCH a division of Liberty Analyti

501 Madison Avenue Cary, NC 27513 1-800-833-5097

CHAIN-UF.	COSTOD! RECORD	110, 00000	
Project Name :	Client Address :	Point-of-Contact :	3
80 DRS	Malcolm Pirnie	Tony Pace	્ને
Carrier: UB	701 Town Center Drive, #600	Telephone No. :757-873-8700	
Airbill No.:	Newport News, VA 23606	Sampling complete? YouN (s	ee Note 1)
Sampler Name: Gerlyn Perlas	Sampler Signature :	Project-specific (PS) or Batch (B)	QC ?
BOY #2 & HOLA ton E ton Only	BOY #3 E Fibrard Boy #4	H High Boy #6 C CLP 3/90	T TOLP

No 068034

BOX #1	Ground Water 7. Oil All Leachate 8. Waste Rinsate 9. Other Soil / Sediment / Studge							•			BO		A. HCI + B. HNO: C. NaOI D. H2SC E. Unpre	3 + lcs H + ics C4 + lcs		r 804 + loi		BOX #	,		- John S	ea tere	d		50	X #4	•	H. I	Med	i Num	1	Box #	;	s. SW W. CV	2-846 VA 600		1 4	CLP				
(9 0	the		amı cter				nu	m))		7092			- L		Watry	Box 82	Filtered / Unifilered	Expected Conc.	Box #6	No. of Bottles	Use for Lab QC (MS or DUP)	NOA	svoc	Peeticide	PCB	Herbicide	Meffig Mercury	Cyanide	TOC HOX /Y	O&G/TPH					1			s / Co Notes			8
				-	Ļ	Į		¥	F		4	+	ų	L-IK	Ī			[Г		Y														
55	_	M	W	Ī	li	T.		ı	T	1	121	~	+-	4.50	1	5	R	и		<	7		H	1	I	1		I		1		Γ										
5 5	_	-	μ	Ļ	1	<u> </u>	_	4	Ť	-+	_	3	+	1:55	7	, 	G	И		3	7		L	1	1	1		Ī		11					Γ							
			T	Ė	Ť	†		┢	T	1		,	T	:	Γ								T	Γ	Γ										Γ							
5	_			4	1	4	-	L	ļ,	ø	12		ļ,		F	_							Τ						Γ	Π	Γ	Γ		Γ	Γ							
5 K	_	$\overline{}$	W	1	†	Т	D	-	Ī		12,	_		4.8		5	F	ч		5	7		4	1	1			I		1				Π								
	_	├	7	ì	۲,	1	<u>-</u>	_	t	1		13	١,,	1:57		5	e	LA.		5	7	-	14	1	h	I		1		Ī												
3		-	+	+	1	-*		O	扌	1	_	<u>-</u> -	-	3:31	$\overline{}$	<u> </u>	F	u'		5	7		14	ſ	I	li		ĵ		1												
ŚŚ		1					_	_	_	_	_	_	_		_	5	F	4		S	7		4		I	I																
		Ť	†	۲	Ť	*		ſ	1	٦		<u> </u>	T	<u> </u>	T									Γ	Π					T		Π										
Clients		L	<u>ا</u> ــــــــــــــــــــــــــــــــــــ	L.	ساس الايو	L		-		_				<u> </u>	ــــــــــــــــــــــــــــــــــــــ																					Т	em	pera	tureJ	57	4.7	'n
Lab; Re	_							tlo	n?	Y	OF	N	_	Descri	be P	robk	ome, If as	ny:																								

CHAIN-OF-CHREADY BECORD

Date: DP/ 3/12 #2 Relinquished By: (Sig) #3 Relinquished By: (Sig) Date: Date: #1 Relinquished By: (Sig) Time: 1450 Company Name: Make Im Company Name: Time: Company Name: Time: Date: | 2 4 0 2 82 Received By: (Sig) Date: #3 Received By: (Sig) Date: #1 Received By: (Sig) Time: (00 Company Name: Time: Company Name: Time: Company Name:

Note (1): If "N" lab will hold samples to await remainder of project-maximizing batch size and minimizing QC ratio; if "Y" lab will begin processing batches now. Note (3): All lab copies of data destroyed after three years.

Note (2): Samples stored 60 days after date report mailed at no extra charge.

COMPUCHEM a division of Liberty Analytical Corp.

Sample ID (9 characters maximum) Spe cernor/s / transmit (or SAmple ID) Spe cernor/s / transmit (or SAmple ID) Spe cernor/s / transmit (or SAmple ID) Specific ID Spe	BOX #1	COMPUC a division of Liberty An 501 Madison At Cary, NC 27: 1-800-833-50 1. Surface Water 2. Ground Water 3. Leachate 4. Rinasta 5. Soil / Sediment /	alytical Corp. /enue 513 197 6. Trip Blan 7. Oil 8. Waste 9. Other	Carried Airbill (No. : er Nam BOX s	80 I 105 10 : Ger 12 A. HCI 13 HNC 14 C. NeC 15 D. H2S	Property Pro	erlas F. los (G. Oth H. NaH	Only ir SO4 + to +NaOH +	Male 701 News Samp	ODY t Address colm Town port 1 ler Sign BOX #	Cen Cen Vews	ter . V	Dr A 2	<u>ive</u> 360	6	\$600 Box #		Tole Sarr	nt-of-cony phono phing pct-sp ph ndlum	No. 068031 Contact: Pace No. 757-873-8700 complete? Y or (see Note 1) Decific (PS) or Batch (B) QC? Box #8 C, GLP 350 T, TCLP S, SW-848 W, CWA 600-series O, Other
	(9 ch.	aracters maximus SPE removes of the Spample IV	12/3 12/3 12/3	13:30 13:35 13:40 13:35	\$ \$ \$	T TT T	и и ч	Expected Conc.	ر ا ا ا	7777	Use for Lab (MS or DUP	4 4 1			Herbiode	Amazan Sweezen		4 I			(See Notes 2 & 3) SAMPLE ID SS-MWIO-4 SS-MWIOMS/MSD-4 SS-MWIO MS/MSD-4 SS-MWIO-1
	+++		1 /	- :								F		1	1			#		1	
			17,						 +			+-	$\vdash \downarrow$	-	4_	Ш		1		\bot	
Hents Special Instructions:	:Nents Spe	clai instructions:											Ц		\perp				П		TRIP BLANK
ab: Received in Good Condition? Y or N Describe Problems, If any:			n? YorN	Describe (Proble-	- V															
1 Relinquished By: (Sig) Holy 103 Date: Deta: Deta: 12 Relinquished By: (Sig) Date: 12 Relinquished By: (Sig)																					4.7
company Name: MA Ce to Time: 1630 Company Name: Time: 1730 Company Name			Piral		me: I/A	30 0	omno	sned By:	(Sig)				Date:			#3 R	elinqu	dahed	By: (5	ig)	Deter
1 Received By: (Sig) P. Shille Date: \ \(\frac{1}{4}\) g z #2 Received By: (Sig)	1 Received	By: (Sig) P. S.	aller		to: 7/	الواج يوالم	Paraba	d Dur 401					Time:	<u> </u>		Com	peny	Name			
ompany Name: Conjuction Time: (O O Company Name: 53 Received By: (Sig) Date:	omnaov Na												Date:			#3 R	ecelv	ed By:	(Sia)		

Time:

Note (1): If "N" lab will hold samples to await remainder of project-maximizing batch size and minimizing QC ratio; if "Y" lab will begin processing batches now. Note (2): Samples stored 60 days after date report mailed at no extra charge.

Note (3): All lab copies of data destroyed after three years.

lient:	· 744 - 0	0			Rec'	d Date: /	2-	16	-0	CEIVI	PPS	/RFA	12	43								_==
roject:	Malen 80 DR	5			Cour	ier: 1	IPS								. ,	Lab	Instru	ctions				<u>, </u>
ruote: 0 201	2				Airb	ill No. 122	<u>ဖြစ</u>	2822	0700	49	-	TCL	4_	170	۷							
ogin No.	(28/2						{ —			25	-											
ubcontract?	Y / QP				 		17		00 Z	*2	-											
AT Verbal	Report /	7			L		W			_	-											
		1																				
Cooler Rec'd By		July	<u>بر</u>						_						Parar	neters		-i	_			
Sample Login B	y: Oct Ca	enole									- 1					1	- 1		1	i	ı	
	2 4 - °C	•	0 V /	(AL)	<u>-</u>				1		- 1					ŀ				ĺ	- 1	
yanide Sample	s checked for sulfide	& chion	/ (RA)	(NA)							ı					1	Ų			l		
henol Samples teceived in Go	checked for chloring	// N	/ (1/2)						1			Post	•			i	ı			i	- 1	
f no, explain:	od Condition?	<u>, ,, ,, , , , , , , , , , , , , , , , </u>				1			-		- {	Part	-	Pt	F		لہ		- 1	i	- [
I no, explain.							11	oc	12	Itale	.	SVO	ر ح	10		7	Xg)	1	l	- !	
			1.50.00			Military	No.			No. &	-	No. &			k p	No. R	P	No. &	P	No. &	P	No. &
CompuChem	Client ID	Q		_	etc OL	Time	Ту	pe i	H	Турс	н	Type	P H	Тур	: Н	Турс		Турс	Н	Турс	Н	Турс
ID			50		104	D 43	3,4	Foe	77	4 52		1.80		14							П	
28/2	55-5B\$3-	9	1-50	172	- 04		\vdash	7	-+-	10		1 (2	1	7				П			
, 3					', -	10.50	 			-	\vdash	-{-	+-		- -		$\dashv \neg$		+	<u> </u>	Ħ	
4	<u> </u>	4			<u>/ </u>	1055				_				┝╌├╴		 			+	 	+	
ſ	55-58 OK-	Φ			/	11:15			_ _	-				-		1	╌┼╌┤		+		1-1	
6	_				7	11:20								<u> </u>			44		+	 	1-1	
-		4		П	7	11:25	1 1											, <u>, </u>	1	L	Ц	
			 	11	7	11:55			T											<u></u>		
8	55-5801-	-	 	+	7	12 00			┪	—								1				
9			- - 	++	-, -		1-1		+	1	1	_										
10	<u> </u>	\			;	12:05	╂╾╂		+-	+	-			1		 			+-		\Box	
11	55-5844-	d				09:45	 	}		 	-		┿-	} }		 -			+	 	┼╌┨	
/2	-					09:50	\perp		_ _		\square		+	} }			+		+-	 	+	
13	30 -	4			/	Q 55	1_1						_	↓			_			<u> </u>	┦╌┨	
14	SS_ 38.05-			\sqcap	1	10:10		1	-							<u> </u>				L	\sqcup	J
	1	'	 	11	7	10:15	1		T		П		· [
1 15		1	-}		/ 	10 20				\top	$ \mid \mid$									1		
16	W -	4	+-+-	╌┼┼╌	100			 - 	+	1	+	V	_						T		\sqcap	
V 17	35- MW11 -	•	<u> </u>	-++,					+,	0/	╁╌┧		-		_	1			十	ļ ————	\Box	
28/2 - 2	ER-55-1204	02	WA	⊥¥	্লু	13:50	134	المعول	- -	194	┼┤	418	_		_				#	-		
	ļ					 	1,	, 	+		-1						-		+		┿┥	
					1	BM 13	1/2	104	_							 	-	ļ	+		┼┤	
					1		4	+			1			+	$\overline{}$	1		· · · · · · · · · · · · · · · · · · ·	\top	1	1	-

COMPUCHEM
a division of Liberty Analytical Com

	Co	MI) [[$C_{\mathbf{I}}$	71	M		·		CH.	AIN-	OF-C	UST	ODY	RE	CC	R	D							Vo	.060985
	division							t Name :			_		Clien	t Addre	55 :	M	lco		Pir	nit	-	IP	olnt	-01-0	2001	4
		Mad					8		<u>es</u>				701	Tow	<u></u>	(en	**	Dr.			∞	7	•••••	٠, ,		
		Cary,	NC 2	27513	3		Carrier		UPS	·				AUR-		NE						_	elep	hon	e N	0.:757 873-8700
	1	-800	833	5097	•		Airbill I				 		2	3600								٦s		lina	00	emplete? Y or (see Note 1)
BOX #1	1 Su	rface '	Wede		_	Trip Blank		er Name			. Per l		Samp	ler Sign	ature): <u> </u>						P	role		ect	fic(PS) or Batch (B) QC ?
		ound \				Oil	•	BOX #2	A. HCI		F. loe C	,		BOX #	3	F. Fi	tere:	1		Box	14	H.	High)		BOX NG C. CLP 3/90 T. TCLP
		chate				Waste		1		X3 + loe HI + loe	G. Othe			1		V. U	nfite	red					_	Sum		5. SW-846
i	4. Rin	este				Other		1		04 + los		804 + lo		i								L	Low			W. CWA 500-series
	5. So	I / Sec	Imen	t / Slu	dge			1		reserved	1. ZIVE	********	IC0	i												O. Other
r					_			Box #1	Box #2		T = ==			<u> </u>												
1						121	Ì				BOX S4	Box #6					Т			T	Т	T	T			
	haracte				_	Date:Year: 2002	<u>a</u>	Metric	Preservative	Filtered / Unfiltered	Expected Conc.	Method	No. of Bottles	Use for Lab QC (MS or DUP)	VOA	SVOC	Pedicide	Herbioide	Gettery Mercury	Cyanida	AG/TPH					Remarks / Comments (see Notes 2 & 3)
<u> </u>	- 5 6	Ø	3	-10	1	214	10:45	5	F	u			7		月	7	ı		뎟	<u> </u>	1	T	H		\dashv	
55-	121	V	3 -	-11		12/4	0 50	5	F	u		(7		y		1	†+	+	-	Η-	-	Н	-	\dashv	
55-	5 8	Ø	3.	_ 4	Γ	214	¹⁰ :55	7	P	u		7	7			+	+	╁┼	+		╀	_	Н		4	
	171	╁		十	†	-		-				_>			41	4	41		1	Ш	4_					
	+-+	-		+	├	. /	:									\perp		11			1			T	\top	
55-	56	Ø	4	<u>-</u> e		214	11 : K	5	F	u		5	7		ч	ıΓ	1	П	ı	1				十	٦,	7
2 5	- 5 8	8 8	4 -	-11		144	:20	5	9	и		5	7		u	1	1	11	#	+;	╁	\vdash	┪	+	٠,	received bottes with these \$302
SS -	-58	Ø	4	-14		24	:25	1	2			5	7			};	+	╁┼	4	- -1	╁┥	_	4	4	4	with these cad?
	+	+=	4	+		10	.ند	->-		4			-1		Ҹ	111	11	Ц	4	4	Ц			\perp	-	- labelled Someplate
- - -	╂╼╂╾	╁╌┤	+	-	-	/	<u>:</u>									\perp			-	1'	11				Τ	7 141
	1-	\sqcup		\perp		1	_:_						ŀ			Π			Τ	Т		7	7	\top	+	
				1		,	.								\top	_	十		+	†	1-1	+	+	+	╁	
Clients Sp	ecial in	struc	ions:			· · · · · · · · · · · · · · · · · · ·					1		<u>-</u>					LL			Ш			_L		
Lab: Rece	ived in	Good	Conc	I ttloŋ	7 Y	or N	Describe	Problem	ne. If any	<u></u>																Temperature 4.0 ℃

Lab: Received in Good Condition? Y or N Describe Problems, If any:			Temperature 4.0 °C
#1 Relinquished By: (Sig) JUVY CP Date: 12/4/02 #2 Relinquished By: (Sig)	Date:		
Company Name: Makulm Yivail AC Time: 1502 Company Name:	Time:	#3 Refinquished By: (Sig)	Date:
#1 Received By: (Sig) 4. Skiller Date: 12/6 or #2 Received By: (Sig)		Company Name:	Time:
Company Name: Company Name: Company Name:	·	#3 Received By: (Sig)	Date:
Nicho (A) (A) (A) (A) (A) (A) (A) (A) (A) (A)	Time:	Company Name:	Time:

Note (1): If "N" lab will hold samples to await remainder of project-maximizing batch size and minimizing QC ratio; if "Y" lab will begin processing batches now. Note (2): Samples stored 60 days after date report mailed at no extra charge.

Note (3): All lab copies of data destroyed after three years.

			\boldsymbol{C}	O	M.	DT	T (~ _T	JE	EM		<u> </u>		CH	AIN-C)F-C	UST	ODY	RE	C	OR	D							ŀ	No	o. 067060	
		=								COTD.		Name :					Clien	t Addre				2	Pil	a id		1re	. Po	trik			ntect:	-
							-	ven		CO.p.	80	DRS					701	Tow	<u>.</u>	آام	R€		Pe.		+ 6	∞]				14 PACE	
								7513			Carrier		NPS_				NE	HORT	ΔX	<u>کلا:</u>	, V	4		23	64	'	Te	dek	hon	e N	10.:757 873-8700	_
				1	-800	0-83	3-5	097			Airbill 1	· · · · · · · · · · · · · · · · · · ·	<u> </u>		A						·						St	mp	ling	CC	omplete? Y of () (see Note 1)	
ſ	BOX	44		6	-	W			_	T-1- 011-		y Name			Perhs		Samp	ler Sign									Pr	ojec	≯-ej) 0 C	HE (PS) or Batch (B) QC ?	_
ľ	BUA	#1				We			-	Trip Blank Oil	í	BOX #2	LA. HCI		F. Ice 0	•		BOX#	3	F. F				8	ox A	4		Higi			BOX NG C. CLP 3/90 T. TCL	è
ı			_		nchai					Wasta			B. HNC	H+ice	G. Othe					U. L	hill	ered					M.	Mec			S. SW-846	
ı			_							Other		l			H. NaH!		-	j									L	Low			W. CWA 600-series	
-								/ Situ		VIII		ľ	E, Unpr	04 + lce	I. ZNAC4	- NaOH	· ice							1							O. Other	
L T									_															上								_
	((9 c				e IC		num))	Date:Year. 2002	ent.	Metrix X	Box #2	Filtered / Unfiltered 28	Expected Cano. 208	Box #6	No. of Bottles	Use for Lab QC (MS or DUP)	VOA	svoc	Pesticide	PCB	*** Piccio	Control years and	TOC/TOX						Remarks / Comments (see Notes 2 & 3)	
	5 !	2	- 9	S	3 9	91	_	- Ø		1214	11:55	5													T		T					_
	\downarrow	1		1	1		<u> </u>	-11	L	1214	12:00	5												T	1	T		Г	П			_
						\perp	1-	- 4		124	12.05	5												T	T	Π	П		П			_
										1	:								П		7	\top		T	T	Τ						_
ŀ		2		5 5			\pm	\pm	Ł	1214	13:50	4	A	u		S	3		3					1	T		П				ER-55-120402	_
\hat{A}	d		h	2		4	么			12 M	13:50	4	F	u		S	4			4	łŀ	t			T						ER - SS - 1204 UZ	-
Y	7					L				12,4	13:50	1	B	u		S	1		П		T		T	ī	T		П				ER-55-12040Z	_
		T	Ţ			Т				,	:								П	7	1		T	1	T	┢	П			_	12 13 - 120 102	_
-	7	2	P	1	عر	- 1	1	K		1	:	4					1						1							X	Cople not in contribun	ر ر
	\bot				\perp	L		\perp	\perp	1	:		<u> </u>			· 												٦	\neg		@12/7/02	_
	Clier	ets 5	pec	ial k	nstri	actle	me:					-													_						Temperature 2, ° ℃	-
- 1									7	Y or N	Descrit	e Proble	,																			
L	#1 R	aling	uish	ed E	ly: (S	ig) (20	<u>' </u>	_}			Date: 12	10415	#2 Refino	uished B	y: (Sig))ate:			#3	Reli	route	hed	By	(Sin)		Deter	_

Time:

Date:

Time:

#3 Relinquished By: (Sig)

#3 Received By: (Sig)

Company Name:

Company Name:

Date:

Time:

Date:

Time:

Note (1): If "N" lab will hold samples to await remainder of project-maximizing batch size and minimizing QC ratio; If "Y" lab will begin processing batches now. Note (2): Samples stored 60 days after date report mailed at no extra charge. Note (3): All lab copies of data destroyed after three years.

Company Name:

Date: | Z [o O #2 Received By: (Sig)

1000 Company Name:

14 Time: 16:00

Time:

Company Name:

Company Name:

#1 Received By: (Sig)

COMPUCHEM
a division of Liberty Analytical Corp.

Company Name:

	(٦,	.	P	T T	\sim	[†] T T	ויסוו	N #	-				CH	AIN-	OF-C	UST	ODY	RE	EC()R	D							N	No. 067058
				l P Lib						F	Project	Name :	Da	_				t Addre								76.	- Po	int-	of-C	Contact:
				ladia	-		-		orp.	-		80		>				OI To						_			1			TONY PACE
		•		ry, N				_		- 1-	Carrier		UPS					te 6		, 1	<u> 19</u>	111	<u>+ 1</u>	Ve,	VS.		Te	lepi	hane	e No. : 757 873-8700
			1-8	9-00	333-	509	97			-	Airbill N		<u></u>	_1 -	- ^	1 4	VA		36								Se	mp	ling	complete? Y or (see Note 1)
BOX #	1	1 5	Si er fe	ce V	V-l-	_	_	6 T	rio Blar		Sample		: Ge		F. Ice C	-las	Samp	ler Sign						· ·						pecific (PS) or Batch (B) QC 7 PS
	•			M P				7. C	•	•			B. HNO		G. Oth	•		BOX #	3		itera Jn(St			Bo	X #4	1		Hgt		Box #6 C. CLP 3/90 T. TCL
		3, 1	.eac	rate				8. Y	Vaste				C. NaO			ISO4 + 1c	•			U . C	7 II #W	a au					M.I		lum	5. SW-846 W. CWA 600-coring
ł			Rine						Xther			•	D. H2S	04 + lce	I. ZnAc	+NaOH +	lce							1				~~		O, Other
<u> </u>		5. 8	oli /	Sed	men	t/5	Slud	70				L	E. Unpr	eserved				⊥						<u>L</u>					_	
									1	70,2		Box #1	Box #2		Box #4	Box #6			Ţ <u> </u>				T	T.	1					
(9	cha			ole i		mu	m)		Date:Year [2]	Ž	Time	Wastrik	Preservative	Filtered / Unfiltered	Expected Conc.	Method	No. of Bottles	Use for Lab QC (MS or DUP)	VOA	svoc	Pesticide	PCB	Metal S Mereny	Change	TOC/THE P	O&G / TPH				Remarks / Comments (see Notes 2 & 3)
55	<u> -</u>	5	6	0	4	듸	Ø		12/	110	1:45	5	F	N.		S	7		4	1		ī	R						7	Toc /PM-one buttle
5 5	-	5	8	Ø	4	ᅥ	1	_	224	L o) : 5 0	5	F	u		5	7		4	1	1	1	1	Γ			П			i.
55	上	5	B	F	1		4		120	1	1.55	5	F	u		5	7		7	1	1		Ti		1		П		7	svix/pest/pcb-one bottle
	L	$oxed{oxed}$							1		:																			Little.
<u>s</u> s	<u>_</u>	5	5	0	5	_	ø		1214	10	0:10	5	E	u		ς	7		4	1	ıT	\prod	1		1		\exists	7	1	3-11.00
5 5	_	5	٤	10	5	_	1		1214	i	1012	5	F	и		ζ	7		ч		1	1	1		1			1	\dagger	
SS	-	5	8	0	₹[.	4	4		יעי	ıĮı	U: 20	5	F	и		C	7		u	7	7	ì	1,	П			\dashv	7	\dagger	
								T	1	Τ	:								П	*	1	Ή	†	H	М	1			7	
						٦			1	Τ	:								H	1	7	\top	+	Н	H	ᅥ	\dashv	+	+	
				\neg	┪	7			1	†							·		H	+	十	十	\dagger	H	+	7	+	+	╅	
Client	s Spi	ecizi	l Ins	ruct	ions	<u>-</u>			<u> </u>		·		L		.	!			Ш				٠	Щ			Щ.		ㅗ	Temperature 3 1 °C
Lab: R	ecei	ved	in G	ood	Con	dit	on?	Y	or/I	יַנ	Describ	Proble	ms, If an	y:																Temperature 3 1 °C
#1 Reli	ngul	shed	ву.	(Sig)		1	2		L	<u>/</u>		Date: 12	4/02	#2 Relina	ulshed E	y: (Sig)					Oate:			#3 F	Relina	Julei	hed I); (Sig)	Date:
Compe	ny N	leme	: /	44		_		Ŋ	金	-1	۸۲	Time:	P;ND	Compan	y Name;						ime:				per					Time;
#1 Rec	elve:	d By	(SI)	2	کے	- -	L)	ستان	<u></u>		Date: / &	LOZ	#2 Recei	ved By: (Sig))ate:			#3 F	(ecel	ved	Ву: (Sig)		Date:

Time:

Company Name:

Time:

Note (1): If "N" lab will hold samples to await remainder of project-maximizing batch size and minimizing QC ratio; if "Y" lab will begin processing batches now. Note (2): Samples stored 60 days after date report mailed at no extra charge. Note (3): All lab copies of data destroyed after three years.

CompuChem_Time: 1000 | Company Name:

	COMPUCHEM a division of Liberty Analytical Corp.
--	---

	3	C	O)	M	Ρl	J ($\mathbb{C}_{\mathbf{I}}$	H	EM	[a				<u>CH</u>	AIN-	DF-C	UST	ODY	RE	ECC	R	D							No	o. 068037		
		a địv	islon	ofl	iber	ty A	naly	tical	Corp.	PTO	ect i	Vame	: 80 DI				Clien	t Addre	33 :	;							Poln	_		4 - 4	9_	
	_		501	Ma	disc	n A	ver	lue		-	ier:							colm 1										ny		**	14	
					, NO						ill No		40	<u>></u>				Town						#6 (00	Ŧ	Telephone No. 757-873-8700					
			٦.	-80	0-83	13- 5	097	7		<u> </u>								port 1			7A	236	06			\neg	Sampling complete? Y or N (see Note 1)					
BOX	#1	1	. Sur	face	W	400		-	Trip Bla	Joan	ipier	Name	Ger	lyn P			Samp	ler Sign		0 :						Ti	Project-specific (PS) or Batch (B) QC ?					
			. Gre						OI		- ['	BUA #	A. HCI	+ ice 03 + ice	F. loe C	-		BOX #	3	F. FI	hered	-		Bo	1#4	-	1. His	3 1			T. TCLP	
		3	. Lee	che	te				Waste					XH+loe	G. Othe	r SO4 + lo		i		U. U	n Me	red .					A. Me	dium	1	S. SW-846	i. ioli	
		4	. Rin	auto	•			9.	Other_					04 + Ice				1								L	. Lov	٧		W. CWA 600-paries	1	
		5	. Soi	/ S	edim	ent /	/ Sku	dge					E. Unp	reserved	1. ALI 676	TIME OT T	rce]						O. Other		
		<u> </u>							T		Ŧ	Box #1			Box #4	Box #6			_				_	<u> </u>	_							
										ł	- 1					OUX PO	}		!	11	1				T	Т	T	Т	T			
			Зал		. 16				2005		- 1		1	٤	نو		1	ا د	li	11		1	_		-		ı	1				
	'Q		acte				•	`	انگرا	1	ł		2	5	[₹]		35					1	ľ	ч.	_	1	1	l	Pomerte / O	_	
,			300	131	I HOL	OHI	UIII	,	₹	1 _		×	1 2	1 2	B	.	3	155	Н	1	3	3	Ž		2		1			Remarks / Comme (see Notes 2 & 3		
									Date:Yes	Ę		Metrix		Filternd / Unfiltered	Expected Conc	Vethod	to. of Bottler	Use for Lab QC (MS or DUP)	5	SVOC	į	Herbiolde	1	휳	ان	Hd L		1		(See MORES 2 & 3)	
5 8	-	-	W	Ti	T	T	b	T	12/5		اه	5	F	V	_ w	2	7	<u>5 &</u>	١	5 d	₽ Te	 ₹	Ş	Š	ဋ	3	 -	-	Ц			
7	\top	Ť	T	1	Ť	T	f	T	116	+ .	+		 `	- V		2			\Box	Щ	1	↓_	Щ	4	4	\bot	\perp					
\dashv	+	+	╁	╁	┿	╁	╁	╁	 	+:	+		├						Ц			L								ER-35-120402		
+	+	┿	╁	╀	╀	╀	╀	-	/_	 : -	-		 								1	\perp		ļ				П			<u> </u>	
+	+	+-	╁	╀	╀	╀	┞	1_	/	<u> </u>	1											П			T	T	Τ		٦		07	
_	\bot	1	\perp	L	L	L	L	L	1	<u> </u> :						T						П		1	十	†			┪	· · · · · · · · · · · · · · · · · · ·		
\perp	\perp		L	L		L			1										7	1	†	H	+	+	\dagger	+	┢		+			
				ĺ					1											+	╁	H	\dashv	╁	╁	╀	\vdash	\vdash	\dashv			
T	Т		Γ		-					1	+								+		├-	Н	\dashv	+	+	╀	Н		4			
_	T	T	T	T	1			H		 	+-							 	+	+	-	\dashv	4	+	\downarrow	\perp	Ц		_		- 1	
┪	\dagger	╁	+-	-	┢	-	\vdash	Н		 : -	╁	\dashv							_	1	L	Ц			į		Ll	- 1	-	· · · · · · · · · · · · · · · · · · ·		
		ــــــــــــــــــــــــــــــــــــــ	<u></u>	<u>L</u> .	<u></u>	L.,	Ш	Ш	/	1:									\perp			Ŀŀ		ı				T	T			
Ben					_	_											•													Temperature 2.6	00	
ab; I						ndil	ion	? Y	or N	Descr			ns, If any																	- Comportation - CT	- -	
1 Re				_			2	<u> </u>	₹					2 Relinq	ished By	(Sig)				Dat	æ:			3 Rei	Inqui	shed	By: ((Sig)		Date:		
omp					<u> 4 (</u>	011	=	7	<u>~~}</u>	hc		ne: []		Company						Thr)e:					/ Name: Time:						
1 Re				9)		<u>_</u>	يد	4	<u>we</u>	<u> </u>			•	2 Receive		g)				Det	8:					d By:)	_	Date:		
Comp	any !	Nam	Ľ			هت	-	P +		<u> </u>	<u>- Th</u>	ne: //	90	Company	Name:					Tìm	e:				_	ame.	_			Time:		

Note (1): If "N" lab will hold samples to await remainder of project-maximizing batch size and minimizing QC ratio; if "Y" lab will begin processing batches now. Note (2): Samples stored 60 days after date report mailed at no extra charge.

Note (3): All lab copies of data destroyed after three years.

Rodney Raimonde

From: Sent:

Pace, Tony [TPace@PIRNIE.COM] Monday, December 09, 2002 7:58 AM

To:

'Rodney Raimonde'

Subject:

RE:

Importance:

Low

Proceed with the VOC analysis using the 4-oz jar samples. Thanks.

Tony Pace Associate Malcolm Pirnie, Inc. 701 Town Center Dr, Suite 600 Newport News, VA 23606 (757) 873-4434 (Phone) (757) 873-8723 (Fax) tpace@pirnie.com

----Original Message----

From: Rodney Raimonde [mailto:rraimonde@compuchemlabs.com] Sent: Saturday, December 07, 2002 2:53 PM

To: Tony Pace

Subject:

Tony;

We have been out of power since Wednesday evening due to an ice storm.

We received some encore samples that were taken on the 4th of the month and per protocol, have to be preserved within 48 hours, so the holding times have expired. We do have a 4cz jar that we could use for VOC if you wish. Please let me know.

Rodney A. Raimonde Project Manager National Accounts CompuChem 919-379-4018 919-379-4040(fax)

				CO	MPUCH COMM	IEM a I IERCIA)ivi L I	ison of I RECEIV	ibo /TN	erty Ana G LOG	aly:	tical				P	age	<u></u>	of		
Client: MA	Leola Pecine			Rec	'd Date: 🗸	2-12-0	=		P	PS/RFA		-			—–						~)
roject:	80 DES			Con	rier UR	2			T		-			Lab	Instr	uctions		· · · ·			<u> 7</u>
uote: 6-2	813			Airt	oill No. /2	250 0	K.	12/002	يهوا	5-3											
	25/2																				
ubcontract?	Y / 64																				_
'AT Verbal	Report 2								_			· · · · · · · · · · · · · · · · · · ·									
Cooler Rec'd B	Cant from]							P	aran	neters					_		_
ample Login B	y. Of Va	-	de								,										-
emperature:	7. 4 °C							ļ					ŀ					ļ			
Cyanide Sample	es checked for sulfide &	chlorir	ie? Y /	NA	1														- 1		
	checked for chlorine?		NA_		ļ			ĺ					1								
teceived in Go	od Condition? Y	_N_			-	1		ŀ					ı					}			
f no, explain:	. ,	 	·			INN		Tel 40	ے	TARGE	9	THAD	eo					:			
CompuChem	Client ID	Q	Matrix	Date	Military	No. &	p H	No. &	P H	No. & Type	P H	No. & Type	PH	No. & Type	PH	No. &	p H	No. & Type	P H	No. &	
ID /8	6HW035	Ċ	30	12/10	Time :	1.502	┼	1-402	H		├ ─-	/- 80E \$	\vdash	- 7/~	+	Турс	-	Type	"	Турс	_
1 /1	67W09		Ĭ	1	:	1.02									\Box						_
¥ 20	GAWOL		-	L	:	1		1		V		L									_
				/	:		T						H							7	-
				1	:		1						П		\Box		\vdash		\Rightarrow		-
		+-		,		 	+		\vdash				-		┼┤				-		-
			l	 , 		┼	+-	 			Н		┨				\vdash				_
				' ,	<u> </u>	ļ	┼	ļ.,	/	_	\vdash						Н		Ш		
		_	ļ	<u> </u>	:	ļ	<u> </u>	Val	0		_		Ш		\sqcup						
				/	ا خـــا	1	2/	10													
				/	6111	V	+		П						П						~
				1/	120						П				\sqcap		\Box				-
			ļ	-	:	l	\Box		1		Н				1-1		╁═┨		\dashv		-
				,	 	 	+				\vdash				╌┧		╁╌┤				_
			<u> </u>	'	 	 	+		├┤		├┤				╁╌╂		╀				_
			 	1		ļ	\vdash	<u> </u>	┟╌╽				\sqcup		$\sqcup \downarrow$						_
			<u> </u>	/	:	ļ	<u> </u>	ļ			Ц		<u> </u>	<u> </u>			Ш				
				/	:	<u> </u>	L												T		_
				1	:	{											П				_
				7	:	1	\sqcap		\Box				\neg		\sqcap				1		-
			 	,		 	+		⊢┤				=		-				_		_
	!	•		, ,	:				_		-1				} !			7			

СомриСнем
a division of Liberty Analytical Corp.

1. Surface Water

BOX #1

Company Name:

Company Name:

#1 Received By: (Sig)

501 Madison Avenue Cary, NC 27513 1-800-833-5097

6. Trip Blank

BOX #2 A. HCI + ice

F. Ice Only

CHAIN-OF	No. 068032						
Project Name :	Client Address :	Point-of-Contact:					
80 DRS	Malcolm Pirnie	Tony Pace					
Carrier: (APS	701 Town Center Drive, #600	Telephone No.: 757-873-8700					
Airbill No. :	Newport News, VA 23606	Sampling complete (Yor N (see Note 1)					
Sampler Name: Gerlyn Perlas	Sampler Signature :	Project-specific (PS) or Batch (B) QC ? PS					

F. Filtered

Time:

Date:

Ťime:

Company Name:

Company Name:

#3 Received By: (Sig)

Time:

Date:

Time:

Box #4

H. High

BOX #3

			3	2. G 9. Li 4. R	rou saci	nd V nate ste				7. C 8. V 9. C	Neste Other_			BOX W	D. H2S4 E. Unpr	3 + lce H + lce O4 + lce eserved	H. NaH I. ZnAc	r SO4 + lo +NaOH +	lce	BOX			- iteri Unfik		i		Вох	#4	,	L Low W. C			SW-8 . CWA			T. TC	-			
	_	,-	har	rac	ten			mu	m)		Date:Year. 2002		Time	Box #1	Preservative	Filtered / Unfiltered og	Expected Conc.	Box #6	No. of Bottles	Use for Lab QC (MS or DUP)	VOA	svoc	Pesticide	PCB	Herbicide	Metals / Mercury	Cyanida	10C/ 10X	H. I. I.	DACO.	250	Kon		R			/ Con			
6	^	٧	1	Ø	5	5					12/4	Q	//:00	5	F	u		0	4	ļ	$oldsymbol{\triangle}$									_	不	7								
L		Ļ	4	1	_	_			_		1	4	:																											
6	~	41	4	2	9	_		_	_	_	1211	7	44:00	5	F	4		0	4	ļ	M								7	۲)	۲	X								
_	L	Ļ	1	_		_			_	_	14		:																				T							
6	4	4	JŁ	2	6	_					211	0	4:0	5	F	Ч		0	4		۴								7	۵,	\mathbf{A}_{i}	X								_
		L	1			\sqcup						1	:																T		Ţ	T								_
<u> </u>		L	1							_	1		:													Ì		Τ	T	1	T									
L		L									1		:									\Box						T	T	T	T	T			~					_
L										[1		:									\neg	T		1	\top		1	1	T	Ť	\top	1			*****				
			I	J							1		:									7	\top	7	7	7	T	1	T	†	†	╅	1-							
CII	ent	3	pec	ادا:	ins	truc	tion	4:																						_4				Ten	nper	ratur	e_7.	<u>'</u> 2	°c	
┢	_	_		_	_						or N				ms, If an																									_
#1	Rel	Inq	det	red	By:	(Słą)	2	<u> </u>		K.			Date: 12	111/12	#2 Relind	puished B	y (Sig)				(Date:	:		#	3 Re	E nqu	ishe	ed B	r. (S	Sig)					Date	e:		

Note (1): If "N" lab will hold samples to await remainder of project-maximizing batch size and minimizing QC ratio; If "Y" lab will begin processing batches now. Note (2): Samples stored 60 days after date report mailed at no extra charge. Note (3): All lab copies of data destroyed after three years.

Company Name:

Time: 14200 Company Name:

Time:

Date: 12-13-4 \$2 Received By: (Sig)



QUALITY ASSURANCE NOTICE

Client	Mateola	Pecris	Ine
Case #			
	Analysis		
	Date /	0-10-02-	

For some organic and/or inorganic determinations temperature preservation at 4 degrees Celsius is required for environmental samples during shipment to the laboratory and prior to analysis. A temperature tolerance range is generally allowed. Temperature of a representative sample from the shipping container is taken and recorded by the receiving clerk at the time of sample receipt. This temperature is representative of all samples contained in the cooler. The EPA CLP program requires the laboratory make notification when the temperature exceeds 10 degrees Celsius. The State of North Carolina allows a range of 2-4.4° Celsius. Notification to other clients is either client or project dependent.

Samples that are hand delivered to the laboratory immediately after collection may not meet this criteria. In these cases, the samples shall be considered acceptable if there is evidence that the chilling process has begun, such as arrival on ice.

A CompuChem customer service representative contacted the client. The client instructed the Receiving department to:

Hand Delivery/Received on ice

Analyze - qualify with notice

Dispose - client will resample

Supervisor Signature ID Date 12-12-13

QAN-R-3 020205

CompuChem

a division of Liberty Analytical Corporation 501 Madison Avenue Cary, N.C. 27513

Tel: 919/379-4100 Fax: 919/379-4050

SDG NARRATIVE SDG #R2812

SAMPLE IDENTIFICATIONS; SSMW10-1 SS-SB03-0 SS-SB03-1 SS-SB03-4 SS-SB02-0 SS-SB02-1 SS-SB02-4 SS-SB01-0 SS-SB01-1 SS-SB01-4 SS-SB04-0 SS-SB04-1 SS-SB04-4 SS-SB05-0 SS-SB05-1 SS-SB05-4

SS-MW11-0 **¢**MW05**\$ ¢**MW09 **¢**MW06

The twenty soil samples listed above were received intact, at 3.5, 4.9, 2.0, 4.0, and 7.2 degrees C, with proper documentation, in sealed shipping containers, on December 04, 06, and 12, 2002. The client was contacted about the elevated receipt temperature, and the laboratory was instructed to proceed with sample analysis.

The majority of samples were submitted for volatile, TOC, semivolatile, pesticide-PCB, and metals analysis, however samples GMW055, GMW09, and GMW06 were submitted for volatile, metals, GRO, and DRO analysis. The volatile samples were prepared and analyzed following SW846 Method 8260B, and this portion of the SDG narrative will only cover the volatile data. All pertinent Quality Assurance Notices are included in the narrative section, and all pertinent Laboratory Notices for SDG # R2812 are included in the sample data sections. Analysis holding time requirements were met for all of these samples, and sample dry weight values ranged from 1 to 21 percent. All samples were received in jars, except for sample SSMW10-1 which was received in EnCore samplers.

The target analytes acetone, methylene chloride, and tetrachloroethene were the most frequently identified at levels above the reporting limits in the submitted samples.

Other than laboratory siloxane and artifact peaks, late cluting Tentatively Identified Compounds (TICs) were present in several samples, and were generally characterized as substituted benzenes, and naphthalenes.

All Bromofluorobenzene (BFB) abundance criteria were met for tunes associated to this SDG. Overall QC criteria were met for all initial and continuing calibration standards associated to this SDG.

All of the system monitoring compounds(SMCs) met recovery criteria in the analyses of these samples, and all of the internal standards met response and retention time criteria in the analyses of these samples.

The associated method blanks met all QC criteria, and did not contain any target analytes above the reporting limits.

Duplicate matrix spikes were generated from the original SSMW10-1 as requested, and met all QC precision and accuracy criteria without exception. The associated Laboratory Control Samples(LCSs) met all accuracy criteria.

Manual quantitations were performed on the process files in the associated initial and continuing calibration(s). The reasons have been coded with explanations provided in the notice included in the narrative section of this SDG.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

> Roy Sutton Case Reviewer

December 20, 2002

FORM 4 VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO

Lab Name: COMPUCHEM

Contract: 8260B

VBLKAE

Lab Code: LIBRTY Case No.: SAS No.:

SDG No.: R2812

Lab File ID: WG21741-2A52_TC4

Lab Sample ID: WG21741-2

Date Analyzed: 12/10/02

Time Analyzed: 1316

GC Column: EQUITY624 ID: 0.53 (mm) Heated Purge: (Y/N) Y

Instrument ID: F50052

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

		LAB	7.55	
	GAMBIE NO		LAB	TIME
	SAMPLE NO.	SAMPLE ID	FILE ID	ANALYZED
		~==#=======		========
01	VAELCS	WG21741-5	WG21741-5R2A	1653
02	SS-SB03-0	R2812-2	R2812-2A52	2132
03	SS-SB03-1	R2812-3	R2812-3A52	
04	SS-SB03-4	R2812-4		2202
05			R2812-4A52	2233
	SS-SB02-0	R2812-5	R2812-5A52	2303
06]
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
•	·			

COMMENTS:	

page 1 of 1

FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKAE

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: WG21741-2 Lab File ID:

Sample wt/vol:

5.0 (g/mL) G

WG21741~2A52 TC4

Date Received:

Level: (low/med) LOW

Date Analyzed: 12/10/02

% Moisture: not dec. _____

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: ____(u.

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q

75-71-8	Dichlorodifluoromethane	5	ប
	Chloromethane	5	U
	Vinyl Chloride	5	ប
74-83-9	Bromomethane	5	U
75-00-3		5	U
	Trichlorofluoromethane	5 5	U
75-35-4	-1,1-Dichloroethene	5	ប
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5	ប
67-64-1	Acetone	13	บ
75~09~2~~~~~	Methylene Chloride	5	ប
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl-tert-butyl ether	5 5	U
75-34-3	1,1-Dichloroethane	5	υ
	cis-1,2-Dichloroethene	5	U
78-93-3	2-butanone	13	Ū
67-66-3		5	ַ
71.65-6	1,1,1-Trichloroethane	5	Ū
56.22-5	Carbon Tetrachloride	5	Ū
71-43-2			Ū
	1,2-Dichloroethane	5 5 5 5 5 5	ΙŪ
70 01 6	Trichloroethene	5	U
79-01-6	1,2-Dichloropropane	Š	Ŭ
76-07-3	Bromodichloromethane	5	Ū
	cis-1,3-Dichloropropene	5	Ū
10061-01-5	4-Methyl-2-pentanone	13	Ū
108-10-1		5	บั
	trans-1,3-Dichloropropene	5	Ü
	1,1,2-Trichloroethane	5	lΰ
		5	lΰ
	Tetrachloroethene	13	ប៊
591-78-6		5	TT
	Dibromochloromethane	5	ប្រ
106-93-4	1,2-Dibromoethane] 3] '
	DODM T VOX	l	1

FORM I VOA

FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM		Method: 8260B		VBLKAE	
Lab Code: LIBRTY	Case No.:			P2812	l
Matrix: (soil/water)	2017	Lap Sa	mple ID: WG2	21741-2	
Sample wt/vol:	5.0 (g/mL) G	Lab Fi	le ID: WG2	21741-2A52_T	C4
Level: (low/med)	LOW	Date R	eceived:		
% Moisture: not dec.		Date A	nalyzed: 12/	10/02	
GC Column: EQUITY624	ID: 0.53 (mm)	Dilutio	on Factor: 1	0	
Soil Extract Volume:	(uL)	Soil A	liquot Volum	ne:	(uI
CAS NO.	COMPOUND	CONCENTRATION	N UNITS: Kg) UG/KG	Q	
100-41-4 100-42-5 75-25-2 98-82-8	ChlorobenzeneEthylbenzeneStyreneStyreneIsopropyl Benze1,1,2,2-Tetrach1,3-Dichloroben1,4-Dichloroben1,2-Dichloroben1,2-Dibromo-3-C1,2,4-TrichloroXylene (total)Methyl acetate	ne loroethane lzene zene zene hloropropane benzene	1	5 U U U U U U U U U U U U U U U U U U U	

CLIENT SAMPLE NO.

VBLKAE

FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Contract: 8260B Lab Name: COMPUCHEM SAS No.: SDG No.: R2812 Lab Code: LIBRTY Case No.: Lab Sample ID: WG21741-2 Matrix: (soil/water) SOIL Sample wt/vol: 5.0 (g/mL) G Lab File ID: WG21741-2A52_T Date Received: Level: (low/med) LOW Date Analyzed: 12/10/02 % Moisture: not dec. Dilution Factor: 1.0 GC Column: EQUITY624 ID: 0.53 (mm) Soil Aliquot Volume: ____(u) Soil Extract Volume: ____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

Number TICs found: 0 Q RTEST. CONC. COMPOUND NAME CAS NUMBER ===== 10.____ 11.___ 12.____ 13.__ 14.__ 15.___ 16.__ 17.__ 18._ 19._ 20. 21._ 22._ 23._ 24. 25._ 26._ 27. 28. 29.___ 30.

FORM I VOA-TIC

FORM 4 VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO

Lab Name: COMPUCHEM Contract: 8260B VBLKCX

Lab Code: LIBRTY Case No.: SAS No.:

SDG No.: R2812

Lab File ID: WG21851-1R2A59

Lab Sample ID: WG21851-1

Date Analyzed: 12/11/02

Time Analyzed: 1223

• • • •

GC Column: ZB624 ID: 0.32 (mm)

Heated Purge: (Y/N) Y

Instrument ID: 5972HP59

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01 02	VCXLCS SSMW10-1	WG21851-4 R2812-1	WG21851-4RA5	1424
03	SSMW10-1MS SSMW10-1MSD	WG21851-6 WG21851-7	R2812-1RA59 WG21851-6A59 WG21851-7A59	1757 1822 1847
05 06				
07 08 09				
10 11				
12 13				
14 15 16				
17 18				
19 20 21				
22 23				
24 25				
26 27 28				
29 30				

COMMENTS:	

page 1 of 1

FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKCX

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: R2812

Matrix: (soil/water) SOIL Lab Sample ID: WG21851-1

Sample wt/vol: 5.00(g/mL) G Lab File ID: WG21851-1R2A59

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/11/02

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q COMPOUND CAS NO. 0.6 J 75-71-8-----Dichlorodifluoromethane____ 5 | U 74-87-3-----Chloromethane 5 U 75-01-4-----Vinyl Chloride_ U 5 74-83-9-----Bromomethane 5 U 75-00-3------Chloroethane 5 U 75-69-4----Trichlorofluoromethane 5 U 75-35-4----1,1-Dichloroethene____ 5 U 75-15-0-----Carbon disulfide 76-13-1----1,1,2-trichloro-1,2,2-triflu 1 J U 13 67-64-1-----Acetone 2 5 J 75-09-2-----Methylene Chloride U 156-60-5----trans-1,2-Dichloroethene U 1634-04-4-----Methyl-tert-butyl ether 5 5 5 U 75-34-3-----1,1-Dichloroethane U 156-59-2----cis-1,2-Dichloroethene 13 U 78-93-3----2-butanone 67-66-3-----Chloroform 71-55-6-----1,1,1-Trichloroethane 56-23-5-----Carbon Tetrachloride____ 71-43-2-----Benzene 107-06-2-----1,2-Dichloroethane 79-01-6-----Trichloroethene 78-87-5-----1,2-Dichloropropane 75-27-4-----Bromodichloromethane 5 U 10061-01-5----cis-1,3-Dichloropropene 13 U 108-10-1----4-Methyl-2-pentanone 0.8 J 108-88-3-----Toluene 10061-02-6----trans-1,3-Dichloropropene 5 | U 5 U 79-00-5-----1,1,2-Trichloroethane_____ 5 U 127-18-4-----Tetrachloroethene 13 | U 591-78-6----2-hexanone 5 | U 124-48-1-----Dibromochloromethane 5 U 106-93-4----1,2-Dibromoethane FORM I VOA

FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM	Method: 8260B		VBLKCX		
Lab Code: LIBRTY Case No.:		OG No.: R	2812	•	
atrix: (soil/water) SOIL Lab Sa		D: WG218	51-1		
Sample wt/vol: 5.00(g/mL) G	Lab File ID	: WG21,8	51-1R2A59		
Level: (low/med) LOW	Date Receive	ed:			
% Moisture: not dec Date		Analyzed: 12/11/02			
GC Column: ZB624 ID: 0.32 (mm)	Dilution Fac	Dilution Factor: 1.0			
Soil Extract Volume:(uL)	Soil Aliquot	Soil Aliquot Volume:(uI		(uI	
CAS NO. COMPOUND	CONCENTRATION UNIT (ug/L or ug/Kg) U		Q		
108-90-7		5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	U U U U U U U U U U		

FORM 1

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

VBLKCX	

Lab Name: COMPUCHEM		Contract: 8260B	
Lab Code: LIBRTY	Case No.:	SAS No.:	SDG No.: R2812
Matrix: (soil/water	·) SOTT.	Lah Sam	nle ID: WG21851-1

Sample wt/vol: 5.00 (g/mL) G Lab File ID: WG21851-1R2A59

Level: (low/med) LOW Date Received: ______
% Moisture: not dec. _____ Date Analyzed: 12/11/02

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uI

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
•		== =======		== ==
1				 ——
3.				l
4:				l
5				
6				l
7.				
0.				
9.				
LU				
۱				
12.				
LJ.				
15.		_		
8.		_ 		
9.		— 		
20.				
(1.		— 		
?2. I				
, T				
40+				
, , ,				
30		ĺ		

FORM I VOA-TIC

FORM 4 VOLATILE METHOD BLANK SUMMARY

V
V

b Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: R2812

Lab File ID: WG21851-2A59

Lab Sample ID: WG21851-2

Time Analyzed: 1027

Date Analyzed: 12/12/02 GC Column: ZB624 ID: 0.32 (mm)

Heated Purge: (Y/N) Y

Instrument ID: 5972HP59

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

		LAB	LAB	TIME
1		SAMPLE ID	FILE ID	ANALYZED
	SAMPLE NO.	SAMPLE ID		=========
	=========	=======================================	WG21851-5A59	1113
01	VCYLCS	WG21851-5	R2812-6RA59	1320
02	SS-SB02-1	R2812-6	R2812-7A59	1359
03	SS-SB02-4	R2812-7	R2812-7A59	1451
04	SS-SB01-1	R2812-9	R2812-9A59	1516
05	SS-SB01-4	R2812-10	R2812-10A59	1541
06	SS-SB04-0	R2812-11		1606
07	SS-SB04-1	R2812-12	R2812-12A59	1634
08	SS-SB04-4	R2812-13	R2812-13A59	1659
09	SS-SB05-0	R2812-14	R2812-14A59	1724
10	SS-SB05-1	R2812-15	R2812-15A59	1
11	SS-SB05-4	R2812-16	R2812-16A59	1750
12	SS-MW11-0	R2812-17	R2812-17A59	1815
13	SS-SB01-0	R2812-8	R2812-8RA59	1840
14	35. 5501. 0			
15				
	Marie Control of the			
16 17				
18				
19				.
20		-		
21				
22		-		
23		-		
24		-		
25		-	-	
26		-	-	
27		_	-	
28			-	
29		_	-	-
30)	_	_1	

COMMENTS:	

FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM **VBLKCY** Method: 8260B Lab Code: LIBRTY Case No.: SAS No.: SDG No.: R2812 Matrix: (soil/water) SOIL Lab Sample ID: WG21851-2 Sample wt/vol: 5.0 (g/mL) GLab File ID: WG21851-2A59 Level: (low/med) LOW Date Received: % Moisture: not dec. Date Analyzed: 12/12/02 GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0 Soil Extract Volume:____(uL) Soil Aliquot Volume: ____(u CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG 0 75-71-8-----Dichlorodifluoromethane 74-87-3-----Chloromethane 5 U 75-01-4-----Vinyl Chloride 5 U 74-83-9-----Bromomethane 5555555 U 75-00-3-----Chloroethane U 75-69-4----Trichlorofluoromethane U 75-35-4-----1,1-Dichloroethene U 75-15-0-----Carbon disulfide U 76-13-1----1,1,2-trichloro-1,2,2-triflu U 67-64-1-----Acetone U 75-09-2-----Methylene Chloride 13 U 156-60-5-----trans-1,2-Dichloroethene 2 5 J 1634-04-4-----Methyl-tert-butyl ether U 75-34-3-----1,1-Dichloroethane 5 U 156-59-2----cis-1,2-Dichloroethene 5 U 78-93-3----2-butanone 5 U 67-66-3-----Chloroform 13 U 71-55-6-----1,1,1-Trichloroethane_ 5 U 56-23-5-----Carbon Tetrachloride 5 U 71-43-2-----Benzene 5 U 107-06-2----1,2-Dichloroethane 5 U 79-01-6-----Trichloroethene 5 U 78-87-5-----1,2-Dichloropropane 5 U 75-27-4-----Bromodichloromethane 5 U 10061-01-5----cis-1,3-Dichloropropene 5 U 108-10-1-----4-Methyl-2-pentanone 5 U 108-88-3-----Toluene 13 U 10061-02-6----trans-1,3-Dichloropropene 0.8 J79-00-5-----1,1,2-Trichloroethane___ 5 U 5 U 5 U 127-18-4-----Tetrachloroethene 591-78-6----2-hexanone 124-48-1-----Dibromochloromethane 13 U 106-93-4-----1,2-Dibromoethane

FORM I VOA

5 U 5 U

FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VOIMITIE ONGLES	VBLKCY
ab Name: COMPUCHEM	Method: 8260B
ab Code: LIBRTY Case No.:	SAS No.: SDG No.: R2812
	Lab Sample ID: WG21851-2
Matrix: (soil/water) SOIL	
Sample wt/vol: 5.0 (g/mL) G	Date Received:
Level: (low/med) LOW	Date Analyzed: 12/12/02
% Moisture: not dec	Dilution Factor: 1.0
GC Column: ZB624 ID: 0.32 (mm)	Soil Aliquot Volume:(u
Soil Extract Volume:(uL)	
CAS NO. COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q
108-90-7	S U S U

FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM		Contract: 8260B	VBLKCY
Lab Code: LIBRTY	Case No.:	SAC No	
Matrix: (soil/water)			No.: R2812
Sample wt/vol:	5.0 (g/mL) G	Lab Sample ID:	
Level: (low/med)	LOW	Lab File ID:	
% Moisture: not dec.		Date Received:	
GC Column: ZB624	ID: 0.32 (mm)	Date Analyzed:	
Soil Extract Volume:_		Dilution Facto	
		Soil Aliquot Vo	olume:(u
Number Tice found a		CONCENTERMENT	

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME		T	
1	COMPOUND NAME	RT	EST. CONC.	1 0
2			==========	===
3.		<u> </u>		
4:				
5.				
6				
7.				
8		_		
9				
10				
11.				
12.		_		
13.		-		
4.		-		
.5.		-		
6.		-		
7.		-		
8.		~ .		
9		- .		
0		-		
1		- `	-	
2		-	-	
3.		.		
3 ·		.	-	
5.				
5				
7		-		
3		-		
		-		

FORM I VOA-TIC

VBLKCH

Lab Name: COMPUCHEM

Contract: 8260B

SAS No.:

SDG No.: R2812

Lab Code: LIBRTY Case No.:

Lab Sample ID: WG21845-3

Lab File ID: WG21845-3A52_TC4

Time Analyzed: 1106

Date Analyzed: 12/19/02

GC Column: EQUITY624 ID: 0.53 (mm)

Heated Purge: (Y/N) Y

Instrument ID: F50052

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

		7.7	TIME
1	LAB	LAB	ANALYZED
Si Si	AMPLE ID	FILE ID	=====
SMILTID IV		======================================	1154
=======================================	A W	G22043-4A52	
01 VGSLCS WG2	2043 1 R	2812-18A52	1248
024 CMW 0585 R28	12 10	2812-19A52	1319
034 GMW09 R28	12-1-	2812-20A52	1349
020 MW05 % S R28 036 MW09 040 MW06 R28	12-20 R	2012	
05			
05			
06			
07			-
08			
09			
10			_
11			_
12			
13			
14			
15			
1.0			_
16			-
17			
18			_ \
19			_
20			_
21			_
22			
23			
24			
25			
26			
20			-
27			
28			
29		\	
30		1	

301	
COMMENTS:	

FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

	Tanin Onesi
Lab Name: COMPUCHEM	Method: 8260P VBLKCH
Lab Code: LIBRTY Case No.:	
Matrix: (soil/water) SOIL	SAS No.: SDG No.: R2812
	Lab Sample ID: WG21845-3
Sample wt/vol: $5.0 (g/mL) G$	
Level: (low/med) LOW	Lab File ID: WG21845-3A52_
Moisture: not dec.	Date Received:
	Date Analyzed: 12/19/02
GC Column: EQUITY624 ID: 0.53 (mm)	
Goil Extract Volume:(uL)	Dilution Factor: 1.0
(42)	Soil Aliquot Volume:
CAS NO. COMPOUND	CONCENTRATION INTERES
	(dg/H OI dg/Kg) UG/KG O
75-71-8Dichlorodifluoro	
74-87-3Chlorodifluoro	
75-01-4Vinyl Chloride	5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U
74-83-9Bromomethane	
75-00-3Chloroethane	5 11
75-69-4Trichlorofluorom 75-35-41,1-Dichloroetha	nethane 5 II
75-35-4	ane Charle 5 II
75-15-0Carbon disulfide	5 11
76-13-11,1,2-trichloro-	1.2 2-trifly 5 U
67-64-1Acetone	1,2,2-triflu 5 U
	de 13 U
156-60-5trans-1,2-Dichlo	roethene 5 U
1634-04-4Methyl-tert-butyl	l ether 5 U
75-34-31,1-Dichloroethan	ne 5 U
156-59-2cis-1,2-Dichloroethar	ethene 5U
78-93-32-butanone	5 U
67-66-3Chloroform	13 Ü
71-55-6	chane 5 U
56-23-5Carbon Tetrachlor	side 5 U
71-43-2Benzene	5 U 5 U
107-06-21,2-Dichloroethan	5 U
1 78-87-5	510
75-27-4 Ti, 2-Dichloropropa	5 U ne 5 U
10061-01-5cis-1,3-Dichlorometh 108-10-14-Methyl-2-penta	ane 5 U
108-10 1	ropene 5 U
108-10-14-Methyl-2-pentand	one 5 U
108-88-3Toluene	13 U
	opropose 5 U
79-00-5	opropene 5 U 5 U
127-18-4Tetrachloroethene	5 U
591-78-62-hexanone	5 0
124-48-1Dibromochlorometha	ane 13 U
106-93-41,2-Dibromochloromethane	5 U
occuane	5 0

FORM I VOA

FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

8260B	VBLKCH
SDG	No.: R2812
Lab Sample ID	: WG21845-3
Lab File ID:	WG21845-3A52_TC4

Lab Code: LIBRTY Case No.: SAS No.: Matrix: (soil/water) SOIL

5.0 (g/mL) G

Lab File

Method: 8260B

Sample wt/vol: Level: (low/med)

_ab Name: COMPUCHEM

LOW

Date Received: _____

% Moisture: not dec.

Date Analyzed: 12/19/02

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume:____(uL)

Soil Aliquot Volume: ____(u

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q

	Q
108-90-7	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5

FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM	Contract: 8260B	VBLKCH .
Lab Code: LIBRTY Case No.:	CAC No	
Matrix: (soil/water) SOIL	DDG .	No.: R2812
Sample wt/vol: 5.0 (g/mL) G	Lab Sample ID:	
Level. (1/)	Lab File ID:	WG21845-3A52_T
% Moisture: not dec.	Date Received:	_
GC Column: EQUITY624 ID: 0.53 (mm)	Date Analyzed:	12/19/02
	Dilution Factor	: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Vo	lume: (u
Mumb on mrs	COMOTOR	

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER		or ug/Kg)	1	
1.	COMPOUND NAME	RT	EST. CONC.	Q
			====================================	====
3				
5.		_		
6.				
7.		-		
8.		~		
9.				
10.		-		
12.		-		
13.				
4.		.		
5		.		
6				
7				
8.				
0		_		
1,		-		
2.		-		
3				
4			-	
5.			_	
7.			-	
3				
·				

FORM I VOA-TIC

_ab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.:

SDG No.: R2812

Lab File ID: BF02111252A

BFB Injection Date: 11/12/02

Instrument ID: F50052

BFB Injection Time: 0731

GC Column: DB624 ID: 0.53 (mm) Heated Purge: (Y/N) Y

		% RELATIVE ABUNDANCE
m/e	ION ABUNDANCE CRITERIA	ADONDANCE
50 75 95 96 173 174 175 176	15.0 - 40.0% of mass 95 30.0 - 60.0% of mass 95 Base Peak, 100% relative abundance 5.0 - 9.0% of mass 95 Less than 2.0% of mass 174 Greater than 50.0% of mass 95 5.0 - 9.0% of mass 174 95.0 - 101.0% of mass 174 5.0 - 9.0% of mass 176	17.3 41.9 100.0 7.0 0.0 (0.0)1 53.9 3.6 (6.7)1 52.9 (98.0)1 3.4 (6.4)2
	1-Value is % mass 174 2-Value is % mass	176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21	VSTD050 VSTD020 VSTD010 VSTD005 VSTD100 VSTD200	VSTD050 VSTD020 VSTD010 VSTD005 VSTD100 VSTD200	CS021112A52 CT021112A52 CU021112A52 CV021112A52 CW021112A52 CX021112A52	11/12/02 11/12/02 11/12/02 11/12/02 11/12/02 11/12/02	0757 0846 0920 0954 1028 1102
page 1 of	1	EOPM	V VOA		

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: R2812

Lab File ID: BF021210A52

BFB Injection Date: 12/10/02

Instrument ID: F50052

BFB Injection Time: 1118

GC Column: DB624 ID: 0.53 (mm)

Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50 75 95 96 173 174 175 176	15.0 - 40.0% of mass 95 30.0 - 60.0% of mass 95 Base Peak, 100% relative abundance 5.0 - 9.0% of mass 95 Less than 2.0% of mass 174 Greater than 50.0% of mass 95 5.0 - 9.0% of mass 174 95.0 - 101.0% of mass 174 5.0 - 9.0% of mass 176	18.0 44.6 100.0 6.9 0.0 (0.0)1 56.8 3.7 (6.6)1 54.5 (96.0)1 3.5 (6.4)2
· ——— I	1-Value is % mass 174 2-Value is % mass	i

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

			•	STIMIDIME
	AE WG21741-2 CS WG21741-5 B03-0 R2812-2 B03-1 R2812-3 B03-4 R2812-4	LAB FILE ID CT021210A52 WG21741-2A52 T WG21741-5R2A52 R2812-2A52 R2812-3A52 R2812-4A52 R2812-5A52	DATE ANALYZED ====================================	TIME ANALYZED ====================================

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: R2812

Lab File ID: BG021210A59

BFB Injection Date: 12/10/02

Instrument ID: 5972HP59

BFB Injection Time: 1252

GC Column: ZB624 ID: 0.32 (mm)

Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50 75 95 96 173 174 175 176	15.0 - 40.0% of mass 95 30.0 - 60.0% of mass 95 Base Peak, 100% relative abundance 5.0 - 9.0% of mass 95 Less than 2.0% of mass 174 Greater than 50.0% of mass 95 5.0 - 9.0% of mass 174 95.0 - 101.0% of mass 174 5.0 - 9.0% of mass 176	15.8 45.4 100.0 6.5 0.0 (0.0)1 94.7 6.9 (7.2)1 91.4 (96.5)1 6.0 (6.5)2
	1-Value is % mass 174 2-Value is % mass	176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16					
19 20 21 22 page 1 of 1					

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: R2812

Lab File ID: BF021211A59 BFB Injection Date: 12/11/02

Instrument ID: 5972HP59 BFB Injection Time: 0926

GC Column: ZB624 ID: 0.32 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50 75 95 96 173 174 175 176	15.0 - 40.0% of mass 95 30.0 - 60.0% of mass 95 Base Peak, 100% relative abundance 5.0 - 9.0% of mass 95 Less than 2.0% of mass 174 Greater than 50.0% of mass 95 5.0 - 9.0% of mass 174 95.0 - 101.0% of mass 176 5.0 - 9.0% of mass 176	16.1 46.2 100.0 6.6 0.0 (0.0)1 89.8 6.4 (7.1)1 86.9 (96.8)1 5.5 (6.3)2
	1-Value is % mass 174 2-Value is % mass	' 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA	LAB	LAB	DATE	TIME
	SAMPLE NO.	SAMPLE ID	FILE ID	ANALYZED	ANALYZED
		===========	=======================================	========	=======
01	VSTD050	VSTD050	CS021211A59	12/11/02	0953
02	VBLKCX	WG21851-1	WG21851-1R2A59	12/11/02	1223
03	VCXLCS	WG21851-4	WG21851-4RA59	12/11/02	1424
04	SSMW10-1	R2812-1	R2812-1RA59	12/11/02	1757
05	SSMW10-1MS	WG21851-6	WG21851-6A59	12/11/02	1822
06	SSMW10-1MSD	WG21851-7	WG21851-7A59	12/11/02	1847
07					
, 08					
09					
10					
11					
12					
13					
14 15					
16					
17		·			
18					 }
19					
20					
21					
22		· · · · · · · · · · · · · · · · · · ·			
page 1 of 1	l				

Lab Name: COMPUCHEM Contract: 8260B

dab watte. Comfocilism

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: R2812

Lab File ID: BF021212A59 BFB Injection Date: 12/12/02

Instrument ID: 5972HP59 BFB Injection Time: 0817

GC Column: ZB624 ID: 0.32 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50 75 95 96 173	15.0 - 40.0% of mass 95 30.0 - 60.0% of mass 95 Base Peak, 100% relative abundance 5.0 - 9.0% of mass 95 Less than 2.0% of mass 174	17.4 48.1 100.0 6.6 0.0 (0.0)1 86.6
174 175 176 177	Greater than 50.0% of mass 95 5.0 - 9.0% of mass 174 95.0 - 101.0% of mass 174 5.0 - 9.0% of mass 176 1-Value is % mass 174 2-Value is % mass	6.2 (7.2)1 83.6 (96.6)1 5.7 (6.9)2

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	=========		=======================================	========	========
01	VSTD050	VSTD050	CT021212A59	12/12/02	0940
02	VBLKCY	WG21851-2	WG21851-2A59	12/12/02	1027
03	VCYLCS	WG21851-5	WG21851-5A59	12/12/02	1113
04	SS-SB02-1	R2812-6	R2812-6RA59	12/12/02	1320
05	SS-SB02-4	R2812-7	R2812-7A59	12/12/02	1359
06	SS-SB01-1	R2812-9	R2812-9A59	12/12/02	1451
07	SS-SB01-4	R2812-10	R2812-10A59	12/12/02	1516
08	SS-SB04-0	R2812-11	R2812-11A59	12/12/02	1541
09	SS-SB04-1	R2812-12	R2812-12A59	12/12/02	1606
10	SS-SB04-4	R2812-13	R2812-13A59	12/12/02	1634
11	SS-SB05-0	R2812-14	R2812-14A59	12/12/02	1659
12	SS-SB05-1	R2812-15	R2812-15A59	12/12/02	1724
13	SS-SB05-4	R2812-16	R2812-16A59	12/12/02	1750
14	SS-MW11-0	R2812-17	R2812-17A59	12/12/02	1815
15	SS-SB01-0	R2812-8	R2812-8RA59	12/12/02	1840
16					
17					
18					
19					
20					
21					
22					
page 1 of		DODM I			

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: R2812

Lab File ID: BG021218A52

BFB Injection Date: 12/18/02

Instrument ID: F50052

BFB Injection Time: 0921

GC Column: EQUITY624 ID: 0.53 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50 75 95 96 173 174 175 176	15.0 - 40.0% of mass 95 30.0 - 60.0% of mass 95 Base Peak, 100% relative abundance 5.0 - 9.0% of mass 95 Less than 2.0% of mass 174 Greater than 50.0% of mass 95 5.0 - 9.0% of mass 174 95.0 - 101.0% of mass 174 5.0 - 9.0% of mass 176	17.7 40.7 100.0 6.9 0.0 (0.0)1 60.7 3.9 (6.5)1 59.3 (97.7)1 3.4 (5.7)2
	1-Value is % mass 174 2-Value is % mass	176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

					
	EPA	LAB	LAB	DATE	TIME
	SAMPLE NO.	SAMPLE ID	FILE ID	ANALYZED	ANALYZED
-	=======================================	=======================================			W.YTI 70D
01	1	VSTD050	CU021218A52	12/18/02	1226
02		VSTD020	CV021218A52	12/18/02	1236
03		VSTD010	CW021218A52	12/18/02	1307
04	VSTD005	VSTD005	CX021218A52	12/18/02	1337
05		VSTD100	CY021218A52	12/18/02	1428
0.6	VSTD200	VSTD200	CZ021218A52	12/18/02	1459
07]		CH071710A37	12/18/02	1529
08					
09					
10			·		
11					
12				i	
13					
14					
15	·				
16					
17:					
18					
19					
20	·				
21					
22					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$					
age I OI I	-	•			

hb Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: R2812

Lab File ID: BF021219A52

BFB Injection Date: 12/19/02

Instrument ID: F50052

BFB Injection Time: 0935

GC Column: DB624 ID: 0.53 (mm)

Heated Purge: (Y/N) Y

,		% RELATIVE
m/e	ION ABUNDANCE CRITERIA	ABUNDANCE
=====		16.7
50 75	15.0 - 40.0% of mass 95	41.3
95	Base Peak, 100% relative abundance	7.5
96	5.0 - 9.0% of mass 95	0.0 (0.0)1
173 174	Less than 2.0% of mass 174 Greater than 50.0% of mass 95	73.4
175	5.0 - 9.0% of mass 174	5.0 (6.8)1 69.8 (95.1)1
176	95.0 - 101.0% of mass 1/4	4.4 (6.3)2
177	5.0 - 9.0% of mass 176	
l	1-Value is % mass 174 2-Value is % mass	176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

11110	~					
		EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21	VSTD050 VBLKCH VGSLCS GMW055 GMW09 GMW06	VSTD050 WG21845-3 WG22043-4 R2812-18 R2812-19 R2812-20	CS021219A52 WG21845-3A52_T WG22043-4A52_T R2812-18A52 R2812-19A52 R2812-20A52	12/19/02 12/19/02 12/19/02 12/19/02 12/19/02 12/19/02	1009 1106 1154 1248 1319 1349
page 1	of	1	FORM	AOV V		

CompuChem

a division of Liberty Analytical Corporation 501 Madison Avenue Cary, N.C. 27513 Tel: 919/379-4100 Fax: 919/379-4050

SDG NARRATIN

SDG NARRATIVE SDG: R2812

SAMPLE IDENTIFICATIONS: SSMW10-1, SS-SB03-0, SS-SB03-1, SS-SB03-4, SS-SB02-0, SS-SB02-1, SS-SB02-4, SS-SB01-0, SS-SB01-1, SS-SB01-4, SS-SB04-0, SS-SB04-1, SS-SB04-4, SS-SB05-0, SS-SB05-1, SS-SB05-4, SS-MW11-0, SS-SB03-0DL

The 17 soil samples listed above were scheduled for the requested analysis of the semivolatile fraction. SW-846, 3rd Edition, Update 3 Method 3550B and Method 8270C were used to prepare and analyze these samples. This portion of the SDG narrative deals with the semivolatile fraction only. All pertinent Quality Assurance Notices are included in the narrative section and all pertinent Laboratory Notices for SDG R2812 are included in the sample data sections.

Semivolatile Section:

Extraction and analysis holding time requirements were met for these samples. There were a few semivolatile Target Compound List (TCL) analytes identified above the Contract Required Quantitation Limit (CRQL) in these samples. Manual quantitations were performed on one or more of the process files associated with this SDG. The reasons have been coded with explanations provided in the notice included in the narrative section of the SDG.

Sample SS-SB03-0 was analyzed at a 5X dilution due to overlimits of several PAH target compounds. Both analyses are being reported. Samples SS-SB05-0 and SS-SB04-0 were initially analyzed at 3X dilutions due to the appearance of the extract, which was extremely dark.

All decafluorotriphenylphosphine (DFTPP) abundance criteria were met for tunes associated to this SDG. Overall QC criteria were met for all initial and continuing calibration standards associated to this SDG. All samples met QC recovery criteria for surrogates. All of the internal standards met response and retention time criteria. The associated method blanks met all quality control criteria Sample SSMW10-1 was used to prepare the duplicate matrix spikes and with the exception of one recovery and two RPDs, met all QC criteria.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Richard M. Henson Technical Director December 20, 2002

QUALITY ASSURANCE NOTICE

CompuChem ID# R2812-3

Client ID# SS-SB03-1

SDG # R2812

In the continuing calibration standard associated with the above semivolatile sample, benzo(b)fluoranthene and benzo(k)fluoranthene were chromatographically resolved and were identified as separate peaks with different retention times. However, in the above sample, these isomers could not be chromatographically resolved. This is indicated with an "X" flag on the Form I.

The maximum concentration possible for each compound has been reported by basing each calculation on the entire area of the unresolved peaks. The concentration for each isomer was calculated using the appropriate compound-specific response factor. An Extracted Ion Current Profile (EICP) for each of the isomers has been provided.

If either value exceeds the concentration of the upper level standard in the initial calibration, a diluted analysis will be performed.

In some instances, there may be slight differences in the areas of the unresolved peaks presented on the EICPs for the two isomers. This can be attributed to the small variations in the retention time windows used to quantitate the compounds, and also to any manual integrations that may have been required.

This notice is being provided to the end-user to explain the "X" flags, and the selected means of reporting the values for benzo(b) fluoranthene and benzo(k) fluoranthene.

Reviewer's	initials/ID)/L	/2391
	Date:	12/18/02	

QAN-SV-23 940215.rl

FORM 4 SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name: COMPUCHEM

Method: 8270C

SBLKAT

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: R2812

Lab File ID: WG21782-1A64

Lab Sample ID: WG21782-1

Instrument ID: 5972HP64

Date Extracted: 12/08/02

Matrix: (soil/water) SOIL

Date Analyzed: 12/12/02

Level: (low/med) LOW

Time Analyzed: 1620

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

		LAB	<u> </u>	
	SAMPLE NO.	SAMPLE ID	LAB	DATE
	==========	SAMPLE ID	FILE ID	ANALYZED
01	SATLCS	WG21782-2	WC21702 0736	========
02	SSMW10-1	R2812-1	WG21782-2JA6	12/12/02
03	SSMW10-1MS	WG21782-5	R2812-1A64 WG21782-5A64	12/13/02 12/13/02
04	SSMW10-1MSD	WG21782-6	WG21782-5A64 WG21782-6A64	12/13/02
05]	MG21/62-6A64	12/13/02
06				
07				
08				
09		-		
10				
11				
12				
13				·
14 15				
16				
17				
18		<u> </u>		
19				
20				
21				
22				
23				
24				
25	· · · · · · · · · · · · · · · · · · ·			
26				
27				
28				
29		 -		
30				
'-		······		1

COMMENTS:	

page 1 of 1

SBLKAT

th Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: WG21782-1

Sample wt/vol:

Lab File ID: WG21782-1A64

30.0 (g/mL) G

Date Received: _____

Level: (low/med) LOW

1000 (uL)

pH: ____

% Moisture: 0

decanted: (Y/N) N

Date Extracted:12/08/02 Date Analyzed: 12/12/02

Concentrated Extract Volume:

1.0(uL)

Dilution Factor: 1.0

Injection Volume: GPC Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q

Lab Name: COMPUCHEM

Method: 8270C

SBLKAT

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: WG21782-1

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: WG21782-1A64

Level: (low/med) LOW

Date Received: ____

% Moisture: 0

decanted: (Y/N) N

Date Extracted:12/08/02

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 12/12/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATI	ON UNITS:	Q
121-14-2 132-64-9 84-66-2 7005-72-3 86-73-7 100-01-6 534-52-1 86-30-6 101-55-3 118-74-1 1912-24-9 85-01-8 120-12-7 86-74-8 206-44-0 129-00-0 85-68-7 91-94-1 117-81-7 56-55-3 218-01-9 117-84-0 205-99-2 207-08-9 50-32-8 191-24-2	PentachlorophenPhenanthreneAnthraceneCarbazoleDi-n-butylphthaFluoranthenePyreneButylbenzylphtha3,3'-Dichloroberbis(2-ethylhexyl	phenylether ethylphenol ylamine (1) henylether ne ol late alate zidine) Phthalate ene ate hene hene pyrene racene lene	1700 660 330 330 330 660 660 330 330 330 3	מטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטט
				00700

8270C

FORM 1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SBLKAT	
--------	--

Lah	Name ·	COMPUCHEM
цаы	name.	COLLE OCTUBLE

Method: 8270C

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: WG21782-1

Sample wt/vol:

30.0 (g/mL) G

Lab File ID:

WG21782-1A64

Level: (low/med)

LOW

Date Received:

% Moisture: _____ decanted: (Y/N)____

Date Extracted:12/08/02

Concentrated Extract Volume:

1000 (uL)

Date Analyzed: 12/12/02

Injection Volume:

1.0(uL)

Dilution Factor: 1.0

GPC Cleanup:

(Y/N) N

pH: ____

Number TICs found: 7

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	
1. 2. 3. 1123-96-2 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24.	UNKNOWN (BC) UNKNOWN (BC) 2-ETHYL-3,5-DIMETHYLPYRIDINE UNKNOWN (BC) UNKNOWN (BC) UNKNOWN (BC) UNKNOWN (BC)	5.35 5.64	EST. CONC. 380 590 190 1000 340 350 180	J J NJ J J
26. 27.				
28. 29. 30.				

FORM 4 SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name: COMPUCHEM

Method: 8270C

SBLKBK

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: R2812

Lab File ID: WG21803-1JA64

Lab Sample ID: WG21803-1

Instrument ID: 5972HP64

Date Extracted: 12/10/02

Matrix: (soil/water) SOIL

Date Analyzed: 12/16/02

Level: (low/med) LOW

Time Analyzed: 1420

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

SAMPLE NO. ===================================			LAB	LAB	DATE
01 SBKLCS			SAMPLE ID	FILE ID	ANALYZED
.501	02 03 04 05 06 07 08 09 10 11 21 314 15 16 17 18 19 20 21 22 22 23 24 25 27 28	SBKLCS SS-SB03-0 SS-SB03-1 SS-SB03-1 SS-SB02-0 SS-SB02-1 SS-SB02-1 SS-SB01-0 SS-SB01-1 SS-SB01-4 SS-SB04-0 SS-SB04-1 SS-SB04-1 SS-SB05-0 SS-SB05-1 SS-SB05-4 SS-MW11-0	======================================	======================================	======================================

COMMENTS:	

page 1 of 1

FORM 1 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SBLKBK

Lab Name: COMPUCHEM

Method: 8270C

Case No.:

SAS No.:

SDG No.: R2812

Lab Code: LIBRTY Matrix: (soil/water) SOIL

Lab Sample ID: WG21803-1

WG21803-1JA64

Sample wt/vol:

30.0 (g/mL) G

Lab File ID:

Level: (low/med) LOW Date Received:

% Moisture: 0

decanted: (Y/N) N 1000 (uL) Date Extracted:12/10/02

Concentrated Extract Volume:

Date Analyzed: 12/16/02

Injection Volume:

1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: ____

CONCENT	RATION !	JNITS:
(ug/L o	r ug/Kg) UG/KG

Q

CAS NO.	COMPOUND (ug/L or ug/Kg	g) UG/KG 2
_		330 U
100 52-7	Benzaldehyde	330 U
100-52-7	Phenol Bis(2-chloroethyl)ether 2-Chlorophenol	330 U
108-95-4-	Bis(2-chloroethy1)ether	330 U
111-44-4	2-Chlorophenol	330 U
95-57-8	2-Methylphenol	330 U
95-48-7	2 2'-oxybis (1-Chloropropane)	330 U
108-60-1	2-Chlorophenol2-Methylphenol2,2'-oxybis(1-Chloropropane)Acetophenone	330 U
98-86-2		330 Ü
106-44-5	N Nitroso-di-N-propylamine	330 U
621-64-7	hloroethane	330 U
67-72-1	Hexaciiiorocom	220 1
		33. [
79 - 59 - 1	ISOPHOLOUS	330 -
88-75-5	2 A Dimethylphenol	330 U
105-67-9	2-Nitrophenol2,4-DimethylphenolBis(2-chloroethoxy)methane	330 U
111-91-1	Bis (2-chloroethoxy) me chara-	330 U
120-83-2	2,4-Dichlorophenol	330 U
		330 U
106 47-8	4-Chloroaniline Hexachlorobutadiene	330 U
100-47-0	Hexachlorobutadiene	330 U
87-66-3-	Caprolactam 4-Chloro-3-methylphenol	330 U
105-60-2	4-Chloro-3-methylphenol	330 U
59-50-7	4-Chloro-3-methylphenol	330 U
91-57-6	Heyachlorocyclopentadiene	330 U
77-47-4	2 4 6-Trichlorophenol	330 U
88-06-2	z, z m dalorophenol	330 U
95-95-4	2,4,6-Trichlorophenol	330 U
92-52-4	hthalene	7.70 7.7
91-58-7	2-Chioronaphenarem	
88-74-4	2-Nitroaniiind	330 U 330 U
1 131-11-3	Dimetry iprotoluene	330 U
606-20-2	2-NitroanilineDimethylphthalate2,6-DinitrotolueneAcenaphthylene	330 U
208-96-8	2,6-Dinitrotoruche	
99-09-2	3-Nitroaniiiie	330 U
83-32-9	Acenaphthene	
05-54		82
	FORM I SV	

Lab Name: COMPUCHEM

Method: 8270C

SBLKBK

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: WG21803-1

Sample wt/vol:

30.0 (g/mL) G

Lab File ID:

WG21803-1JA64

Level: (low/med)

LOW

Date Received:

% Moisture: 0

decanted: (Y/N) N

Date Extracted:12/10/02

Concentrated Extract Volume:

1000 (uL)

Date Analyzed: 12/16/02

Injection Volume:

1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: __

CAS NO.	COMPOUND	CONCENTRATI (ug/L or ug	ON UNITS: /Kg) UG/KG	0
51-28-5 100-02-7 121-14-2 132-64-9 84-66-2 7005-72-3 86-73-7 100-01-6 534-52-1 86-30-6 101-55-3 118-74-1 1912-24-9 87-86-5 85-01-8 120-12-7 84-74-2 206-44-0 129-00-0 85-68-7 91-94-1	2,4-Dinitrophe4-Nitrophenol2,4-DinitrotoTDibenzofuranDiethylphthalai4-ChlorophenylFluorene4,6-Dinitro-2-nN-Nitrosodiphen4-Bromophenyl-pHexachlorobenzeAtrazinePentachlorophenPhenanthreneCarbazoleDi-n-butylphthaFluoranthenePyreneButylbenzylphtha3,3'-Dichlorober	nol	170 666 336 336 330 330 660 660 330 330 33	ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט
218-01-9 218-01-9 117-84-0 205-99-2 207-08-9 50-32-8 193-39-5 53-70-3	ccm tilex ol	ate_hene_hene_pyrene_racene_lene	330 330 330 330 330 330 330 330 330 330	ממממממממ

8270C

FORM 1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SBLKBK

Lab	Name:	COMPUCHEM
цар	manic.	COMPOCITION

Method: 8270C

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R2812

Matrix: (soil/water) SOIL

Lab Sample ID: WG21803-1

Sample wt/vol:

30.0 (g/mL) G

Lab File ID: WG21803-1JA64

Level:

(low/med) LOW

Date Received: _____

% Moisture: ____ decanted: (Y/N)___

Date Extracted:12/10/02

Concentrated Extract Volume:

1000 (uL)

Date Analyzed: 12/16/02

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: ____

Number TICs found: 2

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 2. 3.	UNKNOWN (BC) UNKNOWN (BC)	5.37 5.66		J
4				
9. 10. 11.				
13. 14. 15.				
17. 18. 19.				
21. 22. 23.				
25. 26. 27.				
28. 29. 30.				

FORM 5 SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: R2812

Lab File ID: DF021213A64

DFTPP Injection Date: 12/13/02

Instrument ID: 5972HP64

DFTPP Injection Time: 0851

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51 68 69 70 127 197 198 199 275 365 441 442 443	30.0 - 80.0% of mass 198 Less than 2.0% of mass 69 Mass 69 relative abundance Less than 2.0% of mass 69 25.0 - 75.0% of mass 198 Less than 1.0% of mass 198 Base Peak, 100% relative abundance 5.0 to 9.0% of mass 198 10.0 - 30.0% of mass 198 Greater than 0.75% of mass 198 Present, but less than mass 443 40.0 - 110.0% of mass 198 15.0 - 24.0% of mass 442	40.6 0.0 (0.0)1 52.8 0.3 (0.5)1 41.7 0.1 100.0 7.0 20.8 2.57 10.7 74.8 14.0 (18.7)2
	1-Value is % mass 69 2-Value is % mass	442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01 02 03 04 05 06	SSTD080 SSMW10-1 SSMW10-1MS SSMW10-1MSD	SSTD080 R2812-1 WG21782-5 WG21782-6	HG021213A64 R2812-1A64 WG21782-5A64 WG21782-6A64	12/13/02 12/13/02 12/13/02 12/13/02	0915 1218 1253 1328
07 08					
09					
10					
11 12					
13					
14					
15 16					
17					
18					
19					
20 21					
22					
page 1 of i				l	

FORM V SV

FORM 5 SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

.b Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.:

SAS No.: SDG No.: R2812

Lab File ID: DF021217B64

DFTPP Injection Date: 12/17/02

Instrument ID: 5972HP64

DFTPP Injection Time: 1821

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
=====		40.8
51	30.0 - 80.0% of mass 198	0.0 7 0.0)1
68	Less than 2.0% of mass 69	56.8
69	Mass 69 relative abundance	0.1 (0.3)1
70	25.0 - 75.0% of mass 198	42.0
127 197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 30.0% of mass 198	21.8
365	Greater than 0.75% of mass 198	12.6
441	Present, but less than mass 443	85.7
442	40.0 - 110.0% of mass 198	16.6 (19.4)2
443	15.0 - 24.0% of mass 442	
l	1-Value is % mass 69 2-Value is % mass	442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22	SSTD050 SS-SB05-0 SS-SB05-1 SS-SB05-4 SS-MW11-0 SS-SB03-0DL	SSTD080 SSTD160 SSTD110 SSTD120 SSTD020 SSTD050 R2812-14 R2812-15 R2812-16 R2812-17 R2812-2	HG021217B64 HH021217B64 HH021217B64 HJ021217B64 HK021217B64 HL021217B64 R2812-14DB64 R2812-15B64 R2812-16B64 R2812-17B64	12/17/02 12/17/02 12/17/02 12/17/02 12/17/02 12/17/02 12/17/02 12/17/02 12/17/02 12/18/02 12/18/02	1842 1917 1952 2027 2102 2137 2248 2322 2357 0032 0107
;~J~		FORM	V SV		

FORM V SV

FORM 7B SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM

Contract: 8270C

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: R2812

Instrument ID: 5972HP64 Calibration Date: 12/17/02 Time: 2102

Lab File ID: HK021217B64 Init. Calib. Date(s): 12/17/02 12/17/02 Init. Calib. Times: 1842 2137

GC Column: RTX-5MS ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF80.000 OR AMOUNT	MIN	%D OR %DRIFT	MAX %D O	R CURV
N-Nitrosodiphenylamine 4-Bromophenyl-phenylether Hexachlorobenzene Atrazine Pentachlorophenol Phenanthrene Anthracene Carbazole Di-n-butylphthalate Fluoranthene Pyrene Butylbenzylphthalate 3,3'-Dichlorobenzidine bis (2-ethylhexyl) Phthalate Benzo (a) anthracene Chrysene Di-n-octylphthalate Benzo (b) fluoranthene Benzo (k) fluoranthene Benzo (a) pyrene Indeno (1,2,3-cd) pyrene Dibenzo (a,h) anthracene Benzo (g,h,i) pervlene		0.5708565 0.2994387 0.3249735 0.0348652 0.1771604 1.1229320 1.1332793 1.0244873 1.6992680 1.3710521 1.4029748 0.4305921 1.4305921 1.0344307 1.3191049 1.2122046 1.5401926 1.55401926 1.5545578 1.5069757 1.4063145	0.01 0.01 0.05 0.01 0.01 0.01 0.01 0.01	-2.42 0.15 -2.41 -69.94 -4.24 -3.11 -1.54 0.05	20.00 50.00 50.00 50.00 20.00 50.00 50.00 50.00 20.00	AVRG AVRG
-Fluorophenol henol-d5 itrobenzene-d5 -Fluorobiphenyl ,4,6-Tribromophenol	1.3700000 1 1.7810000 1 0.5380000 0 1.5390000 1 0.4010000 0 1.0730000 1	3567480 .7904290 .5396959 .4910248 4032977	0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01	-2.75 -0.97 0.53 0.32 -3.12 0.57 -0.74	50.00	AVRG ==== AVRG AVRG AVRG AVRG

page 2 of 2

FORM VII SV

Data File: /chem/5972hp64.i/DF021216A64.b/R2812-3A64.d Report Date: 18-Dec-2002 19:00

55-5603-1

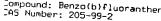
55-5B03-1	QUANT SIG MASS	RT	RESPONSE ====== 75857	CONCENTRA' ON-COLUMN (NG)	TIONS FINAL (ug/Kg) 118.5	SIMILARITY
71 Anthracene 72 Carbazole 73 Di-n-butylphthalate 74 Fluoranthene 76 Pyrene	178 167 149 202 202 149	Compound Not Detected. Compound Not Detected. 14.256 14.271 (1.239) 14.796 14.829 (0.841) Compound Not Detected.	486287 735780	18.7924 29.7992	659.4 1046	
77 Butylbenzylphthalatc 78 3,3'-Dichlorobenzidine 79 bis(2-ethylhexyl)Phthalate 80 Benzo(a)anthracene	252 149 228 228	Compound Not Detected 18.040 18.038 (1.026) 17.550 17.565 (0.998) 17.634 17.667 (1.003)	276761 254348	4.67477 12.0140 12.6915	164.0 421.5 445.3	9162 (a)
81 Chrysene 82 Di-n-octylphthalate 83 Benzo(b)fluoranthene 84 Benzo(k)fluoranthene 85 Benzo(a)pyrene 86 Indeno(1,2,3-cd)pyrene 87 Dibenzo(a,h)anthracene 88 Benzo(g,h,i)perylene	149 252 252 252 276 278 276	Compound Not Detected 19.560	388309 388309 168097 126873 52179	7.42796 3.22150	660.3 684.0 333.6 260.6 113.0 272.2	(a) - 9452 (aM) 8508 (a) 8724 (a)

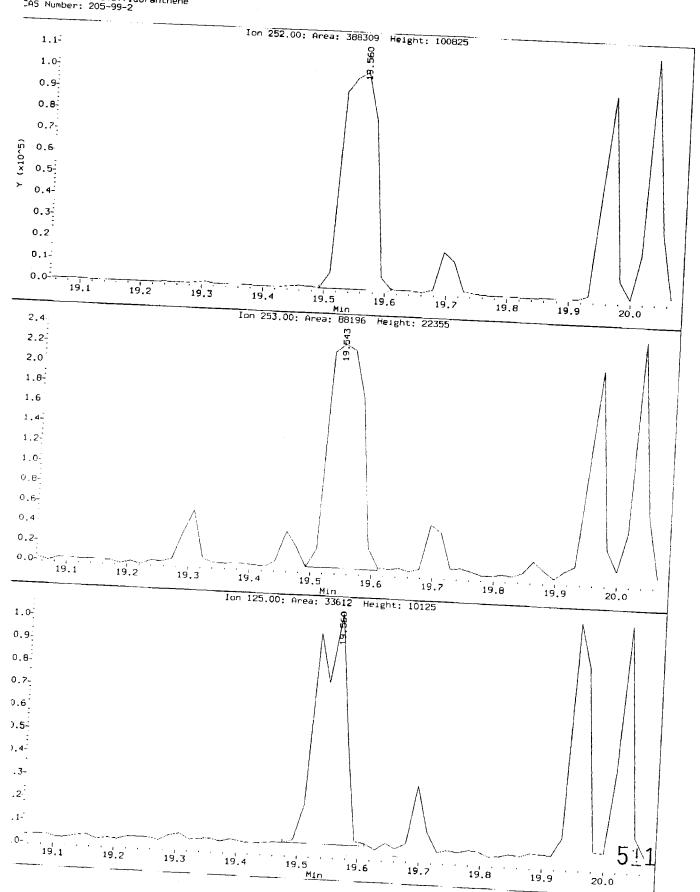
QC Flag Legend

Target compound detected but, quantitated amount
 Below Limit Of Quantitation(BLOQ).
 Compound response manually integrated.

Data File: /chem/5972hp64.i/DF021216A64.b/R2812-3A64.d Injection Date: 16-DEC-2002 16:06 Instrument: 5972hp64.i Client Sample ID: SS-S803-1

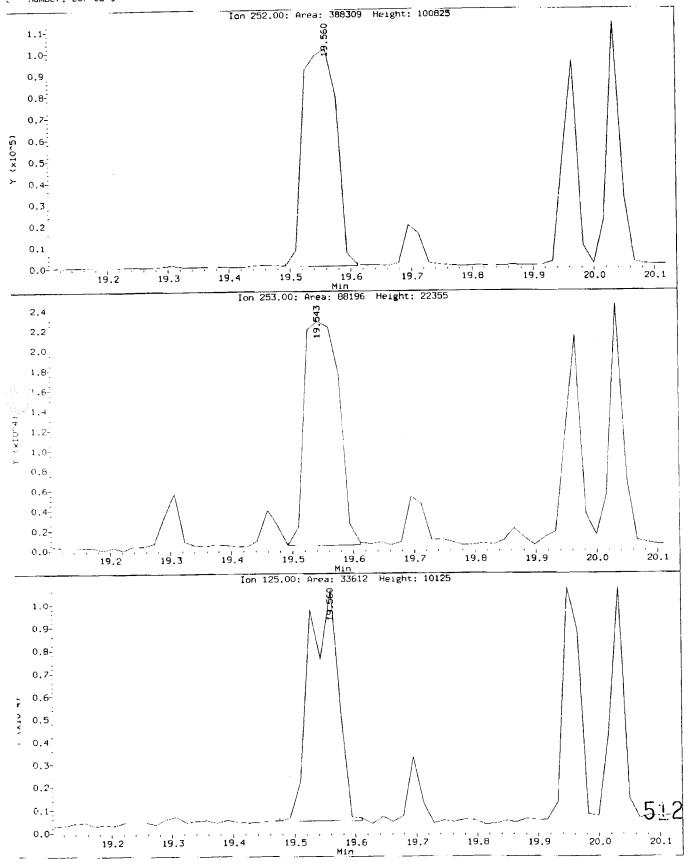
Compound: Benzo(b)fluoranthene CAS Number: 205-99-2





Data File: /chem/5972hp64.i/DF021216A64.b/R2812-3A64.d Injection Date: 16-DEC-2002 16:06 Instrument: 5972hp64.i Client Sample ID: SS-SB03-1

und: Benzo(k)fluoranthene Jumber: 207-08-9



CompuChem

a division of Liberty Analytical Corporation 501 Madison Avenue Cary, N.C. 27513
Tel: 919/379-4050

SDG NARRATIVE

SDG R2812 PROTOCOL: SW-846

SAMPLE IDENTIFICATIONS: SSMW10-1, SS-SB-01-4, SS-SB-04-0, SS-SB-04-1, SS-SB-04-4, SS-SB-05-0, SS-SB-05-1, SS-SB-05-4, SS-MW11-0, SS-SB-03-0, SS-SB-03-1, SS-SB-03-4, SS-SB-02-0, SS-SB-02-1, SS-SB-02-4, SS-SB-01-0, SS-SB-01-1

The 17 soil samples listed above were scheduled for the requested analysis of the Pesticide/PCB fraction. SW-846, 3rd Edition, Update 3, Method 8081A and 8082 were used to analyze the samples, with the exceptions and/or additions requested by the client. All pertinent Quality Assurance Notices are included in the narrative section, and all pertinent Laboratory Notices for SDG R2812 are included in the sample data sections.

Analysis holding time requirements were met for the samples. There were target compounds identified above the reporting limit in 11 of these samples. Manual quantitations were performed on one or more of the process files associated with this SDG. The reasons have been coded with explanations provided in the notice included in the narrative section of the SDG.

The associated method blanks and Laboratory Control Samples (LCS) met all quality control criteria with the exception of 4,4'-DDT in PAWLCS, which had a recovery above criteria. Overall QC criteria were met for all initial and continuing calibration standards associated to this SDG. There were surrogate recoveries outside of advisory criteria in 11 of the samples. SSMW10-1 was used to prepare the duplicate matrix spikes, which met all recovery and precision criteria.

Samples SS-SB01-1, SS-SB03-0, SS-SB03-1 and SS-SB05-0 were analyzed diluted for potential target compounds that exceeded the calibration range in the undiluted analyses. These compounds may possibly be false positives since they did not confirm as positive results in the diluted runs. Both sets of data have been submitted.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Kerry S. Hinshaw

Gas Chromatography Manager

December 21, 2002

2F SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: COMPUCHEM Contract: 8081A

Lab Code: COMPU Case No.: SAS No.: SDG No.: R2812

GC Column(1): CLPEST ID: 0.53 (mm) GC Column(2): CLPEST2 ID: 0.53 (mm)

	1	1								
	EPA	S1	1	S1 2		1	TCX 2	OTHER	OTHER	TOT
	SAMPLE NO.	%REC	#	%REC #	%REC #	#	%REC #	(1)	(2)	OUT
		====	==	=====	======	= [=====	=====	======	===
01	PBLKBL	78		81	92	ŀ	84		•	0
02	PLCSBL	77		80	87		86			0
03	PCBLCSBL	88		84	80	- 1	92			0
04	SS-SB03-ODL	2900	D	237D	97	- 1	114			0
05	SS-SB05-0DL	2200	D	81	150 I	미	130			0
06	PBLKAW	110		86	160 *	*	105			1
07	SS-SB03-1DL	750	D	90	110		100			0
08	PAWLCS	100		100	120	- 1	106			
09	PCBLCSAW	99		89	140 *	*	141*			0 2
10	SSMW10-1MS	130		88	110	- 1	94			l ol
11	SSMW10-1MSD	93		78	99		79			ol
12	SS-SB01-1DL	460	D	43	70	.	63			0
13	SS-SB03-4	120		81	94	- 1	79			0
14	SS-SB02-0	880	*	45	83	ł	77			1
15	SS-SB02-1	140		145*	100	-	79			1
16	SS-SB02-4	160	*	64	95	1	79			1 1 1
17	SS-SB01-0	410	*	126	87		84			1
18	SS-SB01-4	96		94	81		70			ō
19	SS-SB04-1	760	*	50	120	-	83			
20	SS-SB04-4	480	*	43	52	-	46			1
21	SSMW10-1MSPC	110	- 1	101	100	1	93			ōl
22	SSMW10-1MSDP	120	1	107	100	1	93			0
23	SSMW10-1	130	1	112	110		104			o l
24	SS-MW11-0	92	1	99	140 *	r	110			ī
25	\$S-\$B05-4	130	- 1	166*	110		98			1
26	SS-SB05-1	110		124	120	1	111			ō
27	SS-SB01-1	240	*	381*	64		53			
28	SS-SB03-1	350	*	492*	120		97			2 2 2
29	SS-SB03-0	3900	*	3680*	130	1	84			2
30	SS-SB05-0	1800	D	2078D	120	ł	105			ő
,	'		•	1		,	-00			٧ı

ADVISORY

QC LIMITS
S1 = Decachlorobiphenyl (DC (43-144))
S2 (TCX) = Tetrachloro-m-Xylene (43-135)

[#] Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

2F SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: COMPUCHEM

Contract: 8081A

Lab Code: COMPU Case No.: SAS No.:

SDG No.: R2812

GC Column(1): CLPEST ID: 0.53 (mm) GC Column(2): CLPEST2

ID: 0.53 (mm)

	EPA	S1 1	S1 2	TCX 1	TCX 2	OTHER	OTHER	TOT
	SAMPLE NO.	%REC #	%REC #	%REC #	%REC #	(1)	(2)	OUT
		=====	=====	=====	=====	=====	=====	===
01	SS-SB04-0	770 D		70	58		i	0
02	PBLKLB	71	118	110	104			l ŏ
03]					
04						-		
05							l ———	
06								
07			i]
08								ll
09		-						
10			i ———					
11			· · · · · · · · · · · · · · · · · · ·					II
12		-						
13								lI
14								lI
15			I					
16		-		·	· ———			
17								
18								
19								
20								
21								
22			l İ					
23								
24			l I					
25			l ;		1			
26			l l					
27]					
28								
29								
30								
-						1	1	1

ADVISORY

QC LIMITS S1 = Decachlorobiphenyl (DC (43-144) S2 (TCX) = Tetrachloro-m-Xylene (43-135)

[#] Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

8D PESTICIDE ANALYTICAL SEQUENCE

Name: COMPUCHEM

Contract: 8081A

Lab Code: COMPU

Case No.:

SAS No.:

SDG No.: R2812

GC Column: CLPEST

ID: 0.53

(mm) Init. Calib. Date(s): 12/07/02 12/08/02

Instrument ID: VARIAN34

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

			ATE RT FROM I		======================================		
	ŧ	MEAN SURROG	BRATION				
_	i	S1 : 21.27 ₂	TCX:	4.38			
3/226	/>	7	•		mrwn	S1 I	TCX
3\ ^{\\\\}	2	EPA	LAB	DATE	TIME	RT #	RT #
·		SAMPLE NO.	SAMPLE ID	ANALYZED	ANALYZED	#======	=======
]	=======================================	========	=========	========	21.22	4.38
	01	PEMTP	PEMTP	12/07/02	2235	21.22	4.38
	02	INDA1TP	INDA1TP	12/07/02	2306	21.21	4.38
	03	INDB1TP	INDB1TP	12/07/02	2337	21.22	4.38
	04	INDA2TP	INDA2TP	12/08/02	8000	21.21	4.38
	05	INDB2TP	INDB2TP	12/08/02	0039	21.22	4.37
	06	INDA3TP	INDA3TP	12/08/02	0110	$\frac{21.21}{21.22}$	4.38
	07	INDB3TP	INDB3TP	12/08/02	0141	21.22	4.38
	08	INDA4TP	INDA4TP	12/08/02	0212	21.23	4.38
	09	INDB4TP	INDB4TP	12/08/02	0243	21.22	4.38
	10	INDA5TP	INDA5TP	12/08/02	0314	21.23	4.38
	11	INDB5TP	INDB5TP	12/08/02	0345	21.22	4.39
	12	TOXAPH4TP	TOXAPH4TP	12/08/02	0416	21.24	4.38
	13	CHLORO4TP	CHLORO4TP	12/08/02	0447	21.21	4.38
	14	AR16601TP	AR16601TP	12/08/02	0518	21.22	4.38
	15	AR16602TP	AR16602TP	12/08/02	0549	21.21	4.38
	16	AR16603TP	AR16603TP	12/08/02	0621	21.21	4.37
	17	AR16604TP	AR16604TP	12/08/02	0652	21.21	4.38
		AR16605TP	AR16605TP	12/08/02	0723	21.23	4.38
	19	AR12214TP	AR12214TP	12/08/02	0754	21.22	4.39
	20	AR12324TP	AR12324TP	12/08/02	0825	21.24	4.38
	21	AR12424TP	AR12424TP	12/08/02	0856	21.22	4.38
	22	AR12484TP	AR12484TP	12/08/02	0927	21.23	4.38
	23	AR12544TP	AR12544TP	12/08/02	0958	21.23	4.38
	24	PIBLKUW	PIBLKUW	12/12/02	0614	21.23	4.39
	25	AR1660UX	AR1660UX	12/12/02	0829 0857	21.23	4.38
	26	INDAMUX	INDAMUX	12/12/02		21.23	4.38
	27	INDBMUX	INDBMUX	12/12/02	0928	21.23	4.39
	28	PBLKBL	WG21805-1	12/12/02	1016 1045	21.23	4.38
	29	PLCSBL	WG21805-2	12/12/02	1045	21.23	4.38
	30		WG21805-3	12/12/02	1	21.22	4.38
	31	SS-SB03-0DL	R2812-2	12/12/02	1147	21.21	4.38
	32	SS-SB05-0DL	R2812-14	12/12/02	1218	21.21	1.55
				_	.1	.	_

QC LIMITS

S1 = Decachlorobiphenyl (DC (+/- 0.07 MINUTES) TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

[#] Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Lab Name: COMPUCHEM

Contract: 8081A

Lab Code: COMPU

Case No.:

SAS No.:

SDG No.: R2812

GC Column: CLPEST

ID: 0.53

(mm) Init. Calib. Date(s): 12/07/02 12/08/02

Instrument ID: VARIAN34

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	TCX
01 SS-SB03-1DL PIBLKVA O3 AR1660VB O4 INDAMVB INDBMVB O5 SS-SB01-1DL SS-SB02-0 O5 SS-SB02-1 O5 SS-SB02-4 O5 SS-SB01-0 O5 SS-SB01-4 O5 SS-SB04-1 O5 SS-SB04-1 O5 O5 O5 O5 O5 O5 O5 O	R2812-3 PIBLKVA AR1660VB INDAMVB INDBMVB PEMVB R2812-9 R2812-4 R2812-5 R2812-6 R2812-7 R2812-8 R2812-10 R2812-12 R2812-13 PIBLKVC AR1660VD INDAMVD INDBMVD	12/12/02 12/12/02 12/12/02 12/12/02 12/12/02 12/12/02 12/12/02 12/12/02 12/12/02 12/12/02 12/12/02 12/12/02 12/12/02 12/12/02 12/12/02 12/12/02 12/12/02 12/13/02 12/13/02	1453 1555 1625 1656 1727 1758 1829 1900 1931 2001 2032 2103 2134 2205 2236 2337 1023 1052 1123	21.23 21.23 21.22 21.23 21.22 21.23 21.22 21.24 21.18 21.24 21.23 21.23 21.23 21.23 21.23 21.23 21.23 21.23 21.23 21.23	RT

S1 = Decachlorobiphenyl (DC (+/- 0.07 MINUTES)
TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

[#] Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

b Name: COMPUCHEM

Contract: 8081A

Lab Code: COMPU

Case No.:

SAS No.:

SDG No.: R2812

GC Column: CLPEST2

ID: 0.53 (mm) Init. Calib. Date(s): 12/07/02 12/08/02

Instrument ID: VARIAN35

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	MEAN SURROG	ATE RT FROM I	NITIAL CALI 5.57	BRATION		
	EPA	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	TCX RT #
02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23	EPA SAMPLE NO. PEMTP INDA1TP INDB1TP INDB2TP INDB3TP INDB3TP INDB4TP INDB5TP INDB5TP TOXAPH4TP CHLORO4TP AR16601TP AR16602TP AR16603TP AR16604TP AR16605TP AR16605TP AR12214TP AR12324TP AR12424TP AR12484TP AR12544TP					RT # ====== 5.57 5.57 5.57 5.57 5.57 5.57 5.
24 25 26 27 28 29 30 31 32	PIBLKUX AR1660UX INDAMUX INDBMUX PBLKBL PLCSBL PCBLCSBL SS-SB03-0DL SS-SB05-0DL	AR1660UX INDAMUX INDBMUX WG21805-1 WG21805-2 WG21805-3 R2812-2 R2812-14	12/12/02 12/12/02 12/12/02 12/12/02 12/12/02 12/12/02 12/12/02 12/12/02	0829 0857 0928 1016 1045 1116 1147 1218	24.66 24.65 24.66 24.66 24.66 24.66 24.65 24.65	5.57 5.57 5.58 5.57 5.57 5.58 5.56 5.57

QC LIMITS

S1 = Decachlorobiphenyl (DC (+/- 0.07 MINUTES) TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

[#] Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Lab Name: COMPUCHEM

Contract: 8081A

Lab Code: COMPU

Case No.:

SAS No.:

SDG No.: R2812

GC Column: CLPEST2

ID: 0.53 (mm) Init. Calib. Date(s): 12/07/02 12/08/02

Instrument ID: VARIAN35

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	MEAN SURRO S1 : 24.65	GATE RT FROM TCX:	INITIAL CAL 5.57	IBRATION	-	
	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME	S1 RT #	TCX RT #
04 05 06 07 08 09 10 11 12 13 14 15 16	PIBLKVB AR1660VB INDAMVB INDBMVB PEMVB SS-SB01-1DL SS-SB03-4	R2812-3 PIBLKVB AR1660VB INDAMVB INDBMVB PEMVB R2812-9 R2812-4 R2812-5 R2812-6 R2812-7 R2812-8 R2812-10 R2812-12 R2812-13 PIBLKVD AR1660VD INDAMVD INDAMVD INDBMVD	12/12/02 12/12/02 12/12/02 12/12/02 12/12/02 12/12/02 12/12/02 12/12/02 12/12/02 12/12/02 12/12/02 12/12/02 12/12/02 12/12/02 12/12/02 12/12/02 12/12/02 12/13/02 12/13/02	1453 1555 1625 1656 1727 1758 1829 1900 1931 2001 2032 2103 2134 2205 2236 2337 1023 1052 1123	24.66 24.66 24.65 24.65 24.65 24.65 24.65 24.66 24.66 24.65 24.66 24.65 24.66 24.63 24.63 24.63	5.57 5.57 5.57 5.57 5.57 5.57 5.57 5.57

S1 = Decachlorobiphenyl (DC (+/- 0.07 MINUTES) TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

[#] Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

ab Name: COMPUCHEM

Contract: 8081A

Lab Code: COMPU

Case No.:

SAS No.:

SDG No.: R2812

GC Column: CLPEST

ID: 0.53 (mm) Init. Calib. Date(s): 12/11/02 12/11/02

Instrument ID: VARIAN70

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	MEAN SURROO S1 : 14.59	GATE RT FROM I	NITIAL CALI 3.71	BRATION		
	EPA	LAB	DATE	TIME	S1	TCX
	SAMPLE NO.	SAMPLE ID	ANALYZED	ANALYZED	RT #	RT #
	SAMILL NO.	=======================================	=======================================	========	=======	======
01	PEMUZ	PEMUZ	12/11/02	1509	14.57	3.71
02	INDA1UZ	INDA1UZ	12/11/02	1533	14.59	3.71
03	INDB1UZ	INDB1UZ	12/11/02	1557	14.57	3.71
04	INDA2UZ	INDA2UZ	12/11/02	1621	14.57	3.70
05	INDB2UZ	INDB2UZ	12/11/02	1645	14.57	3.71
06	INDA3UZ	INDA3UZ	12/11/02	1708	14.56	3.71
07	INDB3UZ	INDB3UZ	12/11/02	1732	14.56	3.71
08	INDA4UZ	INDA4UZ	12/11/02	1757	14.57	3.71
09	INDB4UZ	INDB4UZ	12/11/02	1821	14.57	3.71
10	INDA5UZ	INDA5UZ	12/11/02	1844	14.56	3.71
11	INDB5UZ	INDB5UZ	12/11/02	1908	14.58	3.71
12	TOXAPH4UZ	TOXAPH4UZ	12/11/02	1932	14.56	3.70
13	CHLORO4UZ	CHLORO4UZ	12/11/02	1956	14.57	3.71
14	AR16601UZ	AR16601UZ	12/11/02	2021	14.58	3.71
15	AR16602UZ	AR16602UZ	12/11/02	2044	14.57	3.71
16	AR16603UZ	AR16603UZ	12/11/02	2107	14.57	3.71
17	AR16604UZ	AR16604UZ	12/11/02	2131	14.57	3.71
18	AR16605UZ	AR16605UZ	12/11/02	2154	14.56	3.71
19	AR12214UZ	AR12214UZ	12/11/02	2218	14.56	3.71
20	AR12324UZ	AR12324UZ	12/11/02	2242	14.57	3.70
21	AR12424UZ	AR12424UZ	12/11/02	2305	14.56	3.71
22	AR12484UZ	AR12484UZ	12/11/02	2329	14.56	3.71
23	AR12544UZ	AR12544UZ	12/11/02	2354	14.56	3.70
24	PIBLKVE	PIBLKVE	12/12/02	1110	14.55	3.70
25	AR1660VF	AR1660VF	12/12/02	1134	14.57	3.71
26	INDAMVF	INDAMVF	12/12/02	1158	14.57	3.71
27	PEMVF	PEMVF	12/12/02	1245	14.58	3.72
28	INDBMVF	INDBMVF	12/12/02	1328	14.57	3.71
29	PBLKAW	WG21785-1	12/12/02	1411	14.57	3.72
30	PBLKSC	PBLKSC	12/12/02	1431	14.56	3.71
31	PAWLCS	WG21785-2	12/12/02	1456	14.58	3.71
32	PCBLCSAW	WG21785-3	12/12/02	1520	14.57	3.69
		1	_	l		

QC LIMITS

S1 = Decachlorobiphenyl (DC (+/- 0.07 MINUTES) TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

[#] Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Lab Name: COMPUCHEM

Contract: 8081A

Lab Code: COMPU

Case No.:

SAS No.:

SDG No.: R2812

GC Column: CLPEST

ID: 0.53 (mm) Init. Calib. Date(s): 12/11/02 12/11/02

Instrument ID: VARIAN70

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	MEAN SURRO S1 : 14.59	GATE RT FROM TCX:	INITIAL CAL 3.71	IBRATION		
	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	TCX RT #
01 02 03 04 05 06 07	SSMW10-1MS SSMW10-1MSD PIBLKVG	WG21785-8 WG21785-9 PIBLKVG AR1660VH INDAMVH INDBMVH	12/12/02 12/12/02 12/12/02 12/12/02 12/12/02 12/12/02	1718 1743 1830 1854 1918 1942	14.57 14.58 14.57 14.58 14.57 14.56	3.71 3.71 3.71 3.71 3.71 3.71 3.71
09 10 11 12 13 14						
16 17 18 19 20 21						
22 23 24 25 26 27						
28 29 30 31 32						

S1 = Decachlorobiphenyl (DC (+/- 0.07 MINUTES) TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

[#] Column used to flag retention time values with an asterisk. * Values outside of QC limits.

Lab Name: COMPUCHEM

Contract: 8081A

Lab Code: COMPU

Case No.:

SAS No.:

SDG No.: R2812

GC Column: CLPEST2

ID: 0.53 (mm) Init. Calib. Date(s): 12/11/02 12/11/02

Instrument ID: VARIAN72

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

1-	MEAN SURROG	ATE RT FROM I	NITIAL CALI 4.63	BRATION		
1	S1 : 16.94	1CA.	DATE	TIME	S1	TCX "
	EPA SAMPLE NO.	LAB SAMPLE ID	ANALYZED	ANALYZED		RT #
01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 22 22 22 22	PEMUZ INDA1UZ INDA1UZ INDB1UZ INDB2UZ INDB2UZ INDB3UZ INDB3UZ INDB4UZ INDB5UZ INDB5UZ INDB5UZ TOXAPH4UZ CHLORO4UZ AR16601UZ AR16603UZ AR16603UZ AR16604UZ AR16605UZ AR12214UZ AR12324UZ AR12324UZ AR12324UZ AR12424UZ AR12424UZ INDBMVF	PEMUZ INDA1UZ INDA1UZ INDB1UZ INDB2UZ INDB2UZ INDB3UZ INDB3UZ INDB4UZ INDB5UZ INDB5UZ INDB5UZ TOXAPH4UZ CHLORO4UZ AR16601UZ AR16603UZ AR16604UZ AR16605UZ AR12214UZ AR12324UZ AR12424UZ AR12424UZ AR12544UZ PIBLKVF AR1660VF INDAMVF PEMVF INDBMVF WG21785-1 PBLKSC ZZZZZ WG21785-3	12/11/02 12/12/02 12/12/02 12/12/02 12/12/02 12/12/02 12/12/02 12/12/02 12/12/02	1509 1533 1557 1621 1645 1708 1732 1757 1821 1844 1908 1932 1956 2021 2044 2107 2131 2154 2218 2242 2305 2329 2354 1110 1134 1158 1245 1328 1411 1431 1456	16.93 16.93 16.93 16.94 16.93 16.93 16.93 16.93 16.95 16.95 16.95 16.95 16.95 16.95 16.97 16.97 16.97 16.97 16.97	4.62 4.63 4.63 4.63 4.63 4.63 4.63 4.63 4.63
	<u></u>	I				

QC LIMITS

S1 = Decachlorobiphenyl (DC (+/- 0.07 MINUTES) TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

[#] Column used to flag retention time values with an asterisk.

* Values outside of QC limits.

Lab Name: COMPUCHEM

Contract: 8081A

Lab Code: COMPU

Case No.:

SAS No.:

SDG No.: R2812

GC Column: CLPEST2

ID: 0.53 (mm) Init. Calib. Date(s): 12/11/02 12/11/02

Instrument ID: VARIAN72

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	TCX
SSMW10-1MS SSMW10-1MSD PIBLKVH AR1660VH INDAMVH INDBMVH	WG21785-8 WG21785-9 PIBLKVH AR1660VH INDAMVH INDBMVH	12/12/02 12/12/02 12/12/02 12/12/02 12/12/02 12/12/02	1718 1743 1830 1854 1918 1942	l " l	RT 4.6 4.6 4.6 4.6

S1 = Decachlorobiphenyl (DC (+/- 0.07 MINUTES)
TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

[#] Column used to flag retention time values with an asterisk.

b Name: COMPUCHEM

Contract: 8081A

Lab Code: COMPU

Case No.:

SAS No.:

SDG No.: R2812

GC Column: CLPEST

ID: 0.53 (mm) Init. Calib. Date(s): 12/12/02 12/13/02

Instrument ID: TRACEGC82

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN S1	SURROG	ATE RT FROM I	NITIAL C 3.99	ALII	BRATION			
	PA LE NO.	LAB SAMPLE ID	DATE ANALYZE		TIME ANALYZED	S1 RT	#	TCX RT #
SAMP	LE NO. ====== VL VL VL VL VL VL VL VL VL O4VL 03VL 04VL 05VL 14VL 24VL 24VL 24VL 24VL 84VL 84VL 84VL 84VL 84VL 8505-4	SAMPLE ID PEMVL INDA1VL INDB1VL INDB2VL INDB3VL INDB3VL INDB3VL INDB5VL INDB5VL TOXAPH4VL CHLORO4VL AR16601VL AR16601VL AR16603VL AR16605VL AR16605VL AR12214VL AR12324VL AR12324VL AR12424VL AR12424VL INDBMYL PIBLKYKYL INDAMYL INDBMYL PEMYL R2812-17 R2812-16 R2812-15 R2812-9	ANALYZE ======== 12/12/0 12/13/1 12/13/1 12/13/1 12/19/1 12/19/1 12/19/1 12/19/1 12/19/1 12/19/1 12/19/1 12/19/1 12/19/1 12/19/1	02 02 02 02 02 02 02 02 02 02 02 02 02 0	ANALYZED ====================================		22 22 22 22 22 22 22 22 23 22 23 22 23 23	RT # ===== 3.99 4.00 4.00 4.00 4.00 4.00 4.00 4.00 3.99 3.99 4.00 4.00 3.99 3.99 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4

QC LIMITS

S1 = Decachlorobiphenyl (DC (+/- 0.07 MINUTES) TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

[#] Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Lab Name: COMPUCHEM

Contract: 8081A

Lab Code: COMPU

Case No.:

SAS No.:

SDG No.: R2812

GC Column: CLPEST

ID: 0.53 (mm) Init. Calib. Date(s): 12/12/02 12/13/02

Instrument ID: TRACEGC82

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	81 : 17.31	GATE RT FROM TCX:	INITIAL CAL 3.99	IBRATION		
	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	TCX RT #
07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	SS-SB03-1 SS-SB03-0 SS-SB05-0 SS-SB04-0	R2812-3 R2812-14 R2812-11 WG21805-1 PIBLKYO AR1660YP INDAMYP INDBMYP	12/19/02 12/19/02 12/19/02 12/20/02 12/20/02 12/20/02 12/20/02 12/20/02	2310 2338 0006 0034 0103 0159 0227 0255 0323	17.35 17.37 17.35 17.36 17.36 17.37 17.37	4.04 4.04 4.04 4.05 4.05 4.05 4.05
31 32						

QC LIMITS

S1 = Decachlorobiphenyl (DC (+/-0.07 MINUTES) TCX = Tetrachloro-m-Xylene (+/-0.07 MINUTES)

[#] Column used to flag retention time values with an asterisk. * Values outside of QC limits.

Lab Name: COMPUCHEM

Contract: 8081A

Lab Code: COMPU

Case No.:

SAS No.:

SDG No.: R2812

GC Column: CLPEST2

ID: 0.53 (mm) Init. Calib. Date(s): 12/12/02 12/13/02

Instrument ID: TRACEGC83

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MENNI CURROCCIORE DE PROM THIERTAL CALTERRATION

		GATE RT FROM		BRATION	1	
	S1 : 19.66	TCX:	4.84			
		····				
	EPA	LAB	DATE	TIME	Sl	TCX
	SAMPLE NO.	SAMPLE ID	ANALYZED	ANALYZED	RT #	RT #
			=======================================	=======================================	======	
01	PEMVL	PEMVL	12/12/02	1459	19.66	4.84
02	INDA1VL	INDA1VL	12/12/02	1527	19.66	4.84
03	INDB1VL	INDB1VL	12/12/02	1555	19.66	4.84
04	INDA2VL	INDA2VL	12/12/02	1624	19.66	4.84
05	INDB2VL	INDB2VL	12/12/02	1652	19.66	4.84
06	INDA3VL	INDA3VL	12/12/02	1720	19.66	4.84
07	INDB3VL	INDB3VL	12/12/02	1748	19.66	4.84
08	INDA4VL	INDA4VL	12/12/02	1816	19.66	4.84
09	INDB4VL	INDB4VL	12/12/02	1844	19.66	4.84
10	INDA5VL	INDA5VL	12/12/02	1913	19.66	4.84
11	INDB5VL	INDB5VL	12/12/02	1941	19.66	4.84
12	TOXAPH4VL	TOXAPH4VL	12/12/02	2009	19.66	4.84
13	CHLORO4VL	CHLORO4VL	12/12/02	2037	19.66	4.84
14	AR16601VL	AR16601VL	12/12/02	2105	19.66	4.84
15	AR16602VL	AR16602VL	12/12/02	2133	19.66	4.84
	AR16603VL	AR16603VL	12/12/02	2202	19.66	4.84
17	AR16604VL	AR16604VL	12/12/02	2230	19.66	4.84
18	AR16605VL	AR16605VL	12/12/02	2258	19.66	4.84
19	AR12214VL	AR12214VL	12/12/02	2326	19.66	4.84
20	AR12324VL	AR12324VL	12/12/02	2354	19.66	4.84
21	AR12424VL	AR12424VL	12/13/02	0022	19.66	4.84
22	AR12484VL	AR12484VL	12/13/02	0050	19.66	4.84
23	AR12544VL	AR12544VL	12/13/02	0119	19.66	4.84
24	PIBLKYL	PIBLKYKYL	12/19/02	1800	19.67	4.86
25	AR1660YL	AR1660YL	12/19/02	1828	19.68	4.87
26	INDAMYL	INDAMYL	12/19/02	1856	19.68	4.86
27	INDBMYL	INDBMYL	12/19/02	1924	19.68	4.87
28	PEMYL	PEMYL	12/19/02	1953	19.68	4.87
29	SS-MW11-0	R2812-17	12/19/02	2119	19.67	4.86
30	SS-SB05-4	R2812-16	12/19/02	2145	19.68	4.86
31	SS-SB05-1	R2812-15	12/19/02	2214	19.69	4.87
32	SS-SB01-1	R2812-9	12/19/02	2242	19.70	4.88
			, ,			••••
,						

QC LIMITS

S1 = Decachlorobiphenyl (DC (+/- 0.07 MINUTES) TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

[#] Column used to flag retention time values with an asterisk. * Values outside of QC limits.

age 1 of 2

Lab Name: COMPUCHEM

Contract: 8081A

Lab Code: COMPU

Case No.:

SAS No.:

SDG No.: R2812

GC Column: CLPEST2

ID: 0.53 (mm) Init. Calib. Date(s): 12/12/02 12/13/02

Instrument ID: TRACEGC83

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION

02 SS-SB03-0 R2812-2 12/19/02 2338 19.73* 4.89 03 SS-SB05-0 R2812-14 12/20/02 0006 19.71 4.89 04 SS-SB04-0 R2812-11 12/20/02 0013 19.70 4.89 05 PBLKLB WG21805-1 12/20/02 0159 19.70 4.89 06 PIBLKYP PIBLKYP 12/20/02 0227 19.70 4.89 07 AR1660YP AR1660YP 12/20/02 0255 19.70 4.89 08 INDAMYP INDAMYP 12/20/02 0255 19.70 4.89 10 INDBMYP INDBMYP 12/20/02 0323 19.70 4.90 11 12		S1 : 19.66	TCX:	4.84	IBRATION		
01 SS-SB03-1 R2812-3 12/19/02 2310 19.70 4.86 02 SS-SB03-0 R2812-1 12/20/02 0006 19.71 4.86 03 SS-SB05-0 R2812-11 12/20/02 0034 19.71 4.86 05 PBLKLB WG21805-1 12/20/02 0103 19.70 4.86 06 PIBLKYP PIBLKYP 12/20/02 0159 19.70 4.86 07 AR1660YP AR1660YP 12/20/02 0227 19.70 4.86 08 INDAMYP INDAMYP 12/20/02 0255 19.70 4.86 09 INDEMYP INDEMYP 12/20/02 0323 19.70 4.90 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27		SAMPLE NO.		l i			
28 29	02 03 04 05 06 07 08 09 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	SS-SB03-1 SS-SB03-0 SS-SB05-0 SS-SB04-0 PBLKLB PIBLKYP AR1660YP INDAMYP	R2812-3 R2812-2 R2812-14 R2812-11 WG21805-1 PIBLKYP AR1660YP INDAMYP	12/19/02 12/19/02 12/20/02 12/20/02 12/20/02 12/20/02 12/20/02 12/20/02 12/20/02	2310 2338 0006 0034 0103 0159 0227 0255	19.70 19.73* 19.71 19.71 19.70 19.70 19.70 19.70	RT # 4 . 88 4 . 89 4 . 89 4 . 89 4 . 89 4 . 89 4 . 89 4 . 89 4 . 90
30 31 32	30 31						

QC LIMITS

S1 = Decachlorobiphenyl (DC (+/- 0.07 MINUTES) TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

[#] Column used to flag retention time values with an asterisk.

^{*} Values outside of QC limits.

ab Name: COMPUCHEM

Contract: 8081A

Lab Code: COMPU

Case No.:

SAS No.:

SDG No.: R2812

GC Column: CLPEST

ID: 0.53

(mm) Init. Calib. Date(s): 12/13/02 12/13/02

Instrument ID: VARIAN70

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

1	MEAN SURROC S1 : 14.54	GATE RT FROM TCX:	[NITIAL CAL] 3.68	BRATION		
	EPA	LAB	DATE	TIME	S1	TCX
	SAMPLE NO.	SAMPLE ID	ANALYZED	ANALYZED	RT #	RT #
	****	=========	=======================================		14.54	3.69
01	PEMVP	PEMVP	12/13/02	0909 0932	14.54	3.69
02	INDA1VP	INDA1VP	12/13/02 12/13/02	0955	14.53	3.68
03	INDB1VP	INDB1VP	12/13/02	1018	14.54	3.69
04	INDA2VP	INDA2VP	12/13/02	1018	14.53	3.68
05	INDB2VP	INDB2VP	12/13/02	1105	14.54	3.68
06	INDA3VP	INDA3VP	12/13/02	1128	14.54	3.69
07	INDB3VP	INDB3VP INDA4VP	12/13/02	1152	14.53	3.68
80	INDA4VP	INDB4VP	12/13/02	1215	14.54	3.68
09	INDB4VP	INDA5VP	12/13/02	1238	14.54	3.68
10	INDA5VP	INDB5VP	12/13/02	1301	14.54	3.68
11 12	INDB5VP TOXAPH4VP	TOXAPH4VP	12/13/02	1325	14.53	3.68
13	CHLORO4VP	CHLORO4VP	12/13/02	1348	14.54	3.68
14	AR16601VP	AR16601VP	12/13/02	1411	14.53	3.68
15	AR16602VP	AR16602VP	12/13/02	1435	14.53	3.67
16	AR16603VP	AR16603VP	12/13/02	1458	14.53	3.68
17	AR16604VP	AR16604VP	12/13/02	1521	14.53	3.68
18	AR16605VP	AR16605VP	12/13/02	1544	14.53	3.67
19	AR12214VP	AR12214VP	12/13/02	1608	14.52	3.67
20	AR12324VP	AR12324VP	12/13/02	1631	14.53	3.67
21	AR12424VP	AR12424VP	12/13/02	1654	14.51	3.67
22	AR12484VP	AR12484VP	12/13/02	1717	14.51	3.67
23	AR12544VP	AR12544VP	12/13/02	1741	14.52	3.67
24	111111111111111111111111111111111111111				_	
25						
26						
27						
28						
29						
30						
31						
32				l	1	I

QC LIMITS

S1 = Decachlorobiphenyl (DC (+/- 0.07 MINUTES) TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

[#] Column used to flag retention time values with an asterisk.

^{*} Values outside of QC limits.

Lab Name: COMPUCHEM

Contract: 8081A

Lab Code: COMPU

Case No.:

SAS No.:

SDG No.: R2812

GC Column: CLPEST

ID: 0.53 (mm) Init. Calib. Date(s): 12/13/02 12/13/02

Instrument ID: VARIAN70

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	MEAN SURRO S1 : 14.54	GATE RT FROM TCX:	IBRATION			
	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	TCX RT #
01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 31 31 31 31 31 31 31 31 31 31 31 31	PIBLKVU AR1660VV INDAMVV INDBMVV SSMW10-1MSPC SSMW10-1MSDP SSMW10-1 PIBLKWC AR1660WD INDAMWD INDBMWD	PIBLKVU AR1660VV INDAMVV INDBMVV WG21785-10 WG21785-11 R2812-1 PIBLKWC AR1660WD INDAMWD INDBMWD	12/14/02 12/14/02 12/14/02 12/14/02 12/14/02 12/14/02 12/14/02 12/14/02 12/14/02 12/14/02 12/14/02	0316 0339 0403 0425 0449 0512 0818 0904 0927 0951 1013	14.50 14.50 14.51 14.51 14.50 14.51 14.50 14.51 14.50 14.50 14.50 14.50	3.66 3.66 3.66 3.66 3.66 3.65 3.66 3.66
32						

S1 = Decachlorobiphenyl (DC (+/- 0.07 MINUTES) TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES) QC LIMITS

[#] Column used to flag retention time values with an asterisk. * Values outside of QC limits.

ab Name: COMPUCHEM

Contract: 8081A

Lab Code: COMPU

Case No.:

SAS No.:

SDG No.: R2812

GC Column: CLPEST2

ID: 0.53 (mm) Init. Calib. Date(s): 12/13/02 12/13/02

Instrument ID: VARIAN72

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

1	MEAN SURROC	ATE RT FROM I	NITIAL CALI	BRATION		
	S1 : 16.93	TCX:	4.62			
			73.00m			TCX
	EPA	LAB	DATE	TIME ANALYZED	RT #	RT #
	SAMPLE NO.	SAMPLE ID	ANALYZED			=======
	=======================================	=========	12/13/02		16.94	4.62
01	PEMVP	PEMVP		0909	16.95	4.63
02	INDA1VP	INDA1VP	12/13/02	0932	16.93	4.61
03	INDB1VP	INDB1VP	12/13/02	0955		
04	INDA2VP	INDA2VP	12/13/02	1018	16.94	4.62
05	INDB2VP	INDB2VP	12/13/02	1042	16.93	4.61
06	INDA3VP	INDA3VP	12/13/02	1105	16.94	4.62
07	INDB3VP	INDB3VP	12/13/02	1128	16.93	4.62
80	INDA4VP	INDA4VP	12/13/02	1152	16.93	4.61
09	INDB4VP	INDB4VP	12/13/02	1215	16.94	4.62
10	INDA5VP	INDA5VP	12/13/02	1238	16.93	4.62
11	INDB5VP	INDB5VP	12/13/02	1301	16.93	4.62
12	TOXAPH4VP	TOXAPH4VP	12/13/02	1325	16.92	4.61
13	CHLORO4VP	CHLORO4VP	12/13/02	1348	16.93	4.62
14	AR16601VP	AR16601VP	12/13/02	1411	16.92	4.61
15	AR16602VP	AR16602VP	12/13/02	1435	16.92	4.61
16	AR16603VP	AR16603VP	12/13/02	1458	16.93	4.61
17	AR16604VP	AR16604VP	12/13/02	1521	16.93	4.61
18	AR16605VP	AR16605VP	12/13/02	1544	16.92	4.61
19	AR12214VP	AR12214VP	12/13/02	1608	16.91	4.60
	AR12324VP	AR12324VP	12/13/02	1631	16.92	4.60
	AR12424VP	AR12424VP	12/13/02	1654	16.90	4.60
	AR12484VP	AR12484VP	12/13/02	1717	16.90	4.60
	AR12544VP	AR12544VP	12/13/02	1741	16.92	4.60
$\frac{1}{24}$	PIBLKVV	PIBLKVV	12/14/02	0316	16.89	4.59
25	AR1660VV	AR1660VV	12/14/02	0339	16.89	4.59
26	INDAMVV	INDAMVV	12/14/02	0403	16.90	4.59
27	INDBMVV	INDBMVV	12/14/02	0425	16.91	4.60
28	SSMW10-1MSPC	WG21785-10	12/14/02	0449	16.89	4.59
29	SSMW10-1MSDP	WG21785-11	12/14/02	0512	16.90	4.59
30	SSMW10-1	R2812-1	12/14/02	0818	16.89	4.58
31	PIBLKWD	PIBLKWD	12/14/02	0904	16.89	4.59
32	AR1660WD	AR1660WD	12/14/02	0927	16.89	4.59
J 2	111111111111111111111111111111111111111		,,		}	<u> </u>
	I		I	I	1	· ·

QC LIMITS

S1 = Decachlorobiphenyl (DC (+/- 0.07 MINUTES) TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

[#] Column used to flag retention time values with an asterisk. * Values outside of QC limits.

Lab Name: COMPUCHEM

Contract: 8081A

Lab Code: COMPU

Case No.:

SAS No.:

SDG No.: R2812

GC Column: CLPEST2

ID: 0.53 (mm) Init. Calib. Date(s): 12/13/02 12/13/02

Instrument ID: VARIAN72

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	MEAN SURRO S1 : 16.93	IBRATION	-			
	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	TCX RT #
01 02 03 04 05 06 07 08 09 10 11 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 28 28 28 28 28 28 28 28 28 28 28 28	INDAMWD INDBMWD	SAMPLE ID INDAMWD INDBMWD	ANALYZED ====================================	ANALYZED ====================================	RT #	RT #
29 30 31 32						

S1 = Decachlorobiphenyl (DC (+/- 0.07 MINUTES) TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES) QC LIMITS

[#] Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

EPA SAMPLE NO.

SS-MW11-0

Lab Name: COMPUCHEM

Contract: 8081A

Lab Code: COMPU Case No.:

SAS No.:

SDG No.: R2812

Lab Sample ID: R2812-17

Date(s) Analyzed: 12/19/02 12/19/02

GC Column(1): CLPEST ID: 0.53(mm) GC Column(2): CLPEST2 ID: 0.53(mm)

			RT W			
ANALYTE	COL	RT	FROM	TO	CONCENTRATION	RPD
]					
beta-BHC	1	6.33	6.32	6.46	1.7	
	2	7.75	7.69	7.83	3.7	74.1
delta-BHC	1	6.76	6.71	6.85	1.3	
	2	8.47	8.43	8.57	1.1	16.7
4,4'-DDE	1	10.51	10.42	10.56	1.3	
	2	12.35	12.25	12.39	3.1	81.8
Endrin Aldehyde	1.	13.02	13.02	13.16	0.66	
	2	14.62	14.54	14.68	0.97	38.0
	-	11.02	11.51	11.00	0.57	30.0
	1					
						
	2					
	1					
	2					
	1					
ļ	2					·
	1					
	2					
	·					l

page 1 of 1

EPA SAMPLE NO.

SS-SB01-1

Lab Name: COMPUCHEM

Contract: 8081A

Lab Code: COMPU Case No.: SAS No.:

SDG No.: R2812

Lab Sample ID: R2812-9

Date(s) Analyzed: 12/19/02 12/19/02

	1		RT W	INDOW	<u> </u>	
ANALYTE	COL	RT	FROM	TO	CONCENTRATION	RPD
	===	=====	=====	=====	######################################	=====
Aldrin	1	7.86	7.86	8.00	11	
	2	9.30	9.29	9.43	9.9	10.5
beta-BHC	1	6.36	6.32	6.46	100	
	2	7.76	7.69	7.83	0.52	197.9
Endosulfan sulfate	1	14.06	14.05	14.20	4.7	
	2	15.26	15.21	15.35	6.7	35.1
Endrin Ketone	1	14.71	14.64	14.79	11	
!	2	16.48	16.42	16.56	8.6	24.5
	1					1
	2					
	1					
	2					
	1					
	2					
	1					
	2					

10A PESTICIDE IDENTIFICATION SUMMARY

FOR SINGLE COMPONENT ANALYTES

Lab Name: COMPUCHEM

Contract: 8081A

SS-SB01-1DL

EPA SAMPLE NO.

Lab Code: COMPU Case No.:

SAS No.:

SDG No.: R2812

Lab Sample ID: R2812-9

Date(s) Analyzed: 12/12/02 12/12/02

Instrument ID (1): VARIAN34

Instrument ID (2): VARIAN35

ANALYTE	COL	RT	FROM	NDOW TO	CONCENTRATION	RPD
	===	=====	=====	=====		=====
Endrin Aldehyde	1	15.34	15.33	15.47	13	
	2	17.75	17.70	17.84	11	16.7
Endrin Ketone	1	17.58	17.52	17.66	3.0	
	2	20.30	20.25	20.39	9.9	107.0
	1					
	2					
	1					
	2		<u> </u>			
	1					
	2					
	1					
	2					
·						
	2					
	1					
	2					
	1 2 1 2					

EPA SAMPLE NO.

SS-SB01-4

Lab Name: COMPUCHEM

Contract: 8081A

Lab Code: COMPU Case No.: SAS No.:

SDG No.: R2812

Lab Sample ID: R2812-10

Date(s) Analyzed: 12/12/02 12/12/02

Instrument ID (1): VARIAN34

Instrument ID (2): VARIAN35

			RT W	NDOW		
ANALYTE	COL	RT	FROM	TO	CONCENTRATION	RPD
	===	=====				
Endrin Aldehyde	1	15.34	15.33	15.47	0.88	
	2	17.74	17.70	17.84	0.45	64.7
		,				
Endrin Ketone	1	17.58	17.52	17.66	1.1	
	2	20.30	20.25	20.39	0.65	51.4
		20.30	20.23	20.00		
	1					
	2					
]		
	1					
	2			ļ		
	1					
	2					
	1					
	2					
	1					
	1			-		
	2		·			
	1				-	
	2		.			
	_	.1	.1	.1	.	.1

EPA SAMPLE NO.

SS-SB02-4

Lab Name: COMPUCHEM

Contract: 8081A

Lab Code: COMPU Case No.:

SAS No.:

SDG No.: R2812

Lab Sample ID: R2812-7

Date(s) Analyzed: 12/12/02 12/12/02

Instrument ID (1): VARIAN34

Instrument ID (2): VARIAN35

			ש דא	INDOW		
ANALYTE	COL	RT	FROM	TO	CONCENTRATION	RPD
=======================================	===	=====	=====	=====	===========	
Endmin Vahana		1				
Endrin Ketone	1	17.57	17.52	17.66	1.2	
	2	20.31	20.25	20.39	1.9	45.2
					1.5	45.2
	,	İ				
	1					
	2				:	
	1					
	1					
	2					
						· · · · · · · · · · · · · · · · · · ·
	1			ļ		
	*					
	2					'
	1					
	2					
			1			
	1	1				
	ľ					
	2					
			ļ	1		
	1	į				
	2					
	1					
						. 1
	2		.			
				1.		

EPA SAMPLE NO.

SS-SB03-0

Lab Name: COMPUCHEM

Contract: 8081A

Lab Code: COMPU Case No.: SAS No.:

SDG No.: R2812

Lab Sample ID: R2812-2

Date(s) Analyzed: 12/19/02 12/19/02

ANALYTE	COL	RT	RT W	INDOW TO	CONCENTRATION	RPD
=======================================	===	=====	FROM	=====	=========	=====
Aldrin	1	7.87	7.86	8.00	110	ļ
	2	9.31	9.29	9.43	110	0.0
Endosulfan sulfate	1	14.10	14.05	14.20	43	
	2	15.27	15.21	15.35	69	46.4
Endrin Ketone	1	14.73	14.64	14.79	110	
	2	16.50	16.42	16.56	43	87.6
~	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

EPA SAMPLE NO.

SS-SB03-1

Lab Name: COMPUCHEM

Contract: 8081A

Lab Code: COMPU Case No.:

SAS No.:

SDG No.: R2812

Lab Sample ID: R2812-3

Date(s) Analyzed: 12/19/02 12/19/02

Instrument ID (1): TRACEGC82

Instrument ID (2): TRACEGC83

ANALYTE	COL	RT =====	RT WI FROM	INDOW TO	CONCENTRATION	RPD
Aldrin	1	7.86	7.86	8.00	15	
	2	9.30	9.29	9.43	13	14.3
Endosulfan I	1	10.43	10.31	10.45	0.90	
	2	11.78	11.72	11.86	0.58	43.2
Endosulfan sulfate	1	14.06	14.05	14.20	5.7	
	2	15.25	15.21	15.35	5.3	7.3
Endrin Ketone	1	14.72	14.64	14.79	14	
	2	16.48	16.42	16.56	9.4	39.3
	1					
	2					
	1					
	2			 -		
	1					
	2					
	1					
	2					

EPA SAMPLE NO.

SS-SB03-4

Lab Name: COMPUCHEM

Contract: 8081A

Lab Code: COMPU Case No.: SAS No.:

SDG No.: R2812

Lab Sample ID: R2812-4

Date(s) Analyzed: 12/12/02 12/12/02

ANALYTE	COL	RT	RT W	INDOW TO	CONCENTRATION	RPD
*************	==== ===	=====	=====	=====		=====
Endrin Ketone	1	17.65	17.52	17.66	0.93	
	2	20.32	20.25	20.39	1.5	46.9
	1					
	2					
	1					
1	2					
	1					
	2					
	$\begin{bmatrix} 1 \\ 2 \end{bmatrix}$					
	1					
	2					
-	1					
	2					
	1					
	2					

EPA SAMPLE NO.

SS-SB04-0

Lab Name: COMPUCHEM

Contract: 8081A

Lab Code: COMPU Case No.:

SAS No.:

SDG No.: R2812

Lab Sample ID: R2812-11

Date(s) Analyzed: 12/20/02 12/20/02

Instrument ID (1): TRACEGC82

Instrument ID (2): TRACEGC83

			RT W	INDOW		
ANALYTE	COL	RT	FROM	TO	CONCENTRATION	RPD
*******	===	=====	=====	======	=========	=====
Aldrin	1	7.87	7.86	8.00	36	
	2	9.31	9.29	9.43	29	21.5
Endosulfan sulfate	1	14.07	14.05	14.20	24	
	2	15.26	15.21	15.35	25	4.1
Endrin Ketone	1	14.72	14.64	14.79	31	
	2	16.49	16.42	16.56	18	53.1
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	I l		!	·		ll

EPA SAMPLE NO.

SS-SB04-4

Lab Name: COMPUCHEM

Contract: 8081A

Lab Code: COMPU Case No.: SAS No.:

SDG No.: R2812

Lab Sample ID: R2812-13

Date(s) Analyzed: 12/12/02 12/12/02

Instrument ID (1): VARIAN34

Instrument ID (2): VARIAN35

GC Column(1): CLPEST ID: 0.53(mm) GC Column(2): CLPEST2 ID: 0.53(mm)

	1		RT W	INDOW		· · · · · · · · · · · · · · · · · · ·
ANALYTE	COL	RT	FROM	TO	CONCENTRATION	RPD
	===	=====	======	=====	=======================================	=====
Dieldrin	1	12.63	12.56	12.70	2.3	
	2	14.96	14.88	15.02	7.1	102.1
Endosulfan sulfate	1	16.72	16.71	16.86	13	
	2	18.73	18.61	18.75	12	8.0
Endrin Ketone	1	17.59	17.52	17.66	7.3	
	2	20.31	20.25	20.39	4.9	39.3
	1					
	2					
	1					
	2					
<u> </u>	1					
	2					
	1					
	2					
	1					
	2			-		
	_					

page 1 of 1

EPA SAMPLE NO.

SS-SB05-0DL

Jab Name: COMPUCHEM

Contract: 8081A

Lab Code: COMPU Case No.:

SAS No.:

SDG No.: R2812

Lab Sample ID: R2812-14

Date(s) Analyzed: 12/12/02 12/12/02

Instrument ID (1): VARIAN34

Instrument ID (2): VARIAN35

ANALYTE	COL	RT =====	RT WI FROM	TO	CONCENTRATION	RPD
Endosulfan sulfate	1	16.71	16.71	16.86	110	
	2	18.73	18.61	18.75	110	0.0
Endrin Ketone	1	17.60	17.52	17.66	72	
	2	20.33	20.25	20.39	29	85.1
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

EPA SAMPLE NO.

Lab Name: COMPUCHEM

Contract: 8081A

SS-SB05-1

Lab Code: COMPU Case No.:

SAS No.:

SDG No.: R2812

Lab Sample ID: R2812-15

Date(s) Analyzed: 12/19/02 12/19/02

Instrument ID (1): TRACEGC82

Instrument ID (2): TRACEGC83

GC Column(1): CLPEST ID: 0.53(mm) GC Column(2): CLPEST2 ID: 0.53(mm)

			RT W	INDOW		
ANALYTE	COL	RT	FROM	TO	CONCENTRATION	RPD
	===	======	=====		========	
alpha-BHC	1	5.34	5.27	5.41	0.74	
	2	6.48	6.45	6.59	0.58	24.2
delta-BHC	1	6.77	6.71	6.85	0.64	
	2	8.49	8.43	8.57	0.66	3.1
Endosulfan sulfate	1	14.05	14.05	14.20	0.80	
	2	15.27	15.21	15.35	0.56	35.3
Heptachlor	1	7.19	7.17	7.30	0.58	
	2	8.61	8.50	8.64	1.0	53.2
Endrin Ketone	1	14.69	14.64	14.79	4.2	
	2	16.42	16.42	16.56	1.3	105.4
	1					
	2					
	1					
	2					
	1					
	2					
	I .	·	1	ĺ .		

page 1 of 1

EPA SAMPLE NO.

SSMW10-1

b Name: COMPUCHEM

Contract: 8081A

Lab Code: COMPU Case No.:

SAS No.:

SDG No.: R2812

Lab Sample ID: R2812-1

Date(s) Analyzed: 12/14/02 12/14/02

Instrument ID (1): VARIAN70

Instrument ID (2): VARIAN72

			RT W	NDOW		i
ANALYTE	COL	RT	FROM	TO	CONCENTRATION	RPD
		:		5.62	2.4	.
beta-BHC	1	5.59	ł			45.0
	2	6.86	6.84	6.98	1.5	46.2
	1					
	2					
	1					
	2					
	1					
	2					
		•				
	1					
	2					
	1					
	2		-			·
	1					
	1		-			
	2		-	-		
	1					-
	2					
	_					

a Division of Liberty Analytical Corp.

501 Madison Avenue Cary, NC 27513

INORGANIC CASE SUMMARY NARRATIVE SDG # R2812 PROTOCOL # SW-846

The indicated Sample Delivery Group (SDG) consisting of twenty (20) soil samples was received into the laboratory management system (LIMS) on December 4, 6, and 12, 2002 intact and in good condition with Chains of Custody (COC) records in order. Sample ID's reported in this data package are noted by the receiving department on the COC if they differ from those listed by the samplers on the COC.

Samples received 12/12/02 were found to have a temperature of 7.2 degrees Celsius. Please see the QA notice located behind the narrative.

Three samples were analyzed for total iron and seventeen samples were analyzed for total TAL metals using analytical methods delineated in SW-846 (Third Edition)-Update III.

SAMPLE IDs:

Customer IDs and correlating laboratory IDs are listed on the cover page.

INSTRUMENTAL QUALITY CONTROL:

All calibration verification solutions (ICV & CCV), blanks (ICB, & CCB), and interference check samples (ICSA & ICSAB) associated with this data were confirmed to be within SW-846 allowable limits.

SAMPLE PREPARATION QUALITY CONTROL:

The sample preparation procedure verifications (LCSS & PBS) were found to be within acceptable ranges and all field samples were prepared and analyzed within the contract specified holding times.

COMPUCHEM utilizes a soil Laboratory Control Sample (LCS) purchased from Environmental Resources Associates (ERA). With each lot of soil LCS material purchased, a certification document is included which provides Performance Acceptance Limits TM (PAL TM). The limits are listed as guidelines for acceptable results and closely approximate the 95% confidence interval. As with any LCS, it is a QC measure used to demonstrate control and any results, which are outside the acceptance criteria, require corrective action up to and including redigesting and reanalyzing the entire sample preparation batch.

MATRIX RELATED QUALITY CONTROL:

The sample matrix spike, CCN = WG21923-1 (SSMW10-1S) was found to be outside control limits for thallium. The sample matrix spike duplicate, CCN = WG21923-2 (SSMW10-1SD) was found to be outside control limits for lead and thallium. The reported concentrations for these analytes are flagged with an "N" on all associated Form 1 and on Form 5a.

An "N" indicates a matrix-related interference in the sample preparation procedure &/or analysis for the flagged analyte. This is normally the consequence of a relatively high anionic content in the sample or (for some sediments) an inconsistent sample matrix relative to that analyte.

SW-846 control limits for matrix spike recoveries are set at 75% to 125% of the analyte quantity added unless original sample concentrations exceed the true values of these "spikes" by a factor of four or more. In this case, affected analytes are not flagged even if recoveries are outside percentage recovery control limits.

Post-digestion spikes are mandatory for analytes demonstrating unsatisfactory matrix spike recoveries during ICP analysis (excluding silver). The results of such spikes are presented on Form 5b.

Unsatisfactory recovery of post-digestion spikes of this type do not have bearing upon the aforementioned "N" flags, but may indicate interference during analysis &/or a solution matrix which is hostile to the analyte in question.

Satisfactory recovery of an analyte in a post-digestion spike of this type implies interference by the required preparation procedure or in the sample matrix itself. Lack of uniformity for an analyte in sediments will also result in satisfactory recovery of post-digestion spikes after failure in the related matrix spike.

The sample matrix duplicate, CCN = WG21923-3 (SSMW10-1D) was outside control limits for lead. The reported concentration for this analyte is flagged with a "*" on all associated Form 1 and on Form 6.

A "*" indicates a non-homogeneous sample matrix in regard to the flagged analyte. This is normally the consequence of a relatively coarse texture or of a mixed-matrix in sediment samples.

SW-846 control limits for duplicate determinations are +/- 20% Relative Percent Difference (RPD) for concentrations greater than or equal to five times the PQL in both the original and duplicate samples, and +/- the PQL for concentrations less than five times the PQL. The RPD is not calculated if both the original and duplicate values fall below the IDL.

A five-fold serial dilution of sample, CCN = R2812-1 (SSMW10-1L) was performed in accordance with SW-846 requirements for ICP analysis.

The adjusted sample concentrations were outside control limits for magnesium, which is flagged with an "E" on all associated Form 1, the Cover Page and Form 9.

An "E" indicates that a chemical or physical interference effect was encountered during the analysis of the flagged analyte. As a result of this interference, all values for the analyte in the same matrix must be considered to be estimated quantities.

SW-846 control limits for serial dilution are defined as a deviation less than or equal to 10% in the dilution-adjusted concentrations from the original values for all analyte concentrations with values greater than fifty (50) times their respective Instrument Detection Limit (IDL) in the original sample.

The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Thomas R. Cole Data Reviewer II December 18, 2002



QUALITY ASSURANCE NOTICE

Client Makeda Persie Inc Case # Type of Analysis Receipt Date

For some organic and/or inorganic determinations temperature preservation at 4 degrees Celsius is required for environmental samples during shipment to the laboratory and prior to analysis. A temperature tolerance range is generally allowed. Temperature of a representative sample from the shipping container is taken and recorded by the receiving clerk at the time of sample receipt. This temperature is representative of all samples contained in the cooler. The EPA CLP program requires the laboratory make notification when the temperature exceeds 10 degrees Celsius. The State of North Carolina allows a range of 2-4.4° Celsius. Notification to other clients is either client or project dependent.

Samples that are hand delivered to the laboratory immediately after collection may not meet this criteria. In these cases, the samples shall be considered acceptable if there is evidence that the chilling process has begun, such as arrival on ice.

The temperature of this sample at the time of receipt was determined to be 7.8 %

A CompuChem customer service representative contacted the client. The client instructed the Receiving department to:

Hand Delivery/Received on ice

Analyze - qualify with notice

Dispose - client will resample

Supervisor Signature ID Comp Fact

Date 12-12

- BKI VIRTOR

QAN-R-3 020205

qanr3 -- 2/5/02:dce

2B-IN

CRDL STANDARD FOR AA AND ICP

Lab Name:	COMPUCHEM			Contract:			· · · · · · · · · · · · · · · · · · ·	
Lab Code:	LIBRTY	Case 1	No.:	SAS No.:		SDG No.:	R2812	
AA CRDL Sta	andard Source:		HIPUR					
ICP CRDL S	andard Source	:	HIPUR					
				Concentration Un	ital valt			

					CRDL Star	ndard f	or ICP	
			Ì	Ini	tial		Fina	1
Analyte	True	Found	%R	True	Found	₹R	Found	₹R
Aluminum	İ	1		100.0	92.53	92.5		
Antimony		1		10.0	9.62	96.2		
Arsenic				10.0	8.69	86.9)	
Barium				10.0	10.72	107.2	•	
Beryllium				5.0	5.10	102.0		
Cadmium		1		5.0	6.24	124.B		
Calcium				1000.0	1027.82	102.8		
Chromium				5.0	5.11	102.2		
Cobalt		1		5.0	5.09	101.8		
Copper		1		5.0	3.94	78.8		
Iron				100.0	91.65	91.6		
Lead	İ			3.0	3.27	109.0		
Magnesium				1000.0	991.64	99.2		
Manganese		Î		10.0	9.96	99.6		
Mercury	0.2	0.21	105.0					
Nickel				5.0	5.6	113.2)	
Potassium				1000.0	1231.32			
Selenium		Î		5.0	7.98	159.6	>	
Silver	i			5.0		94.6		
Sodium	1			2000.0	1473.57	73.7	>	1
Thallium	i	i		10.0	10.56	105.6		
Vanadium				20.0	19.49			
Zinc		i		20.0	20.76			i

Control Limits: no limits have been established by EPA at this time

2B-IN

CRDL STANDARD FOR AA AND ICP

Lab Name: COMPUCHEM	Contract:			
Lab Code: LIBRTY Case No.:	SAS No.:		SDG No.:	R2812
AA CRDL Standard Source: HIPUR				
ICP CRDL Standard Source: HIPUR				

Concentration Units: ug/L

					CRDL Sta	ndard f		
Analyte	True	Found	%R	11	tial .		Fina	_
Aluminum	-	,		True	Found	₹R	Found	%R
				100.0	115.60	115.6		
Antimony		<u></u>		10.0		99.3		Ì
Arsenic				10.0		89.8		
Barium				10.0		105.5		
Beryllium				5.0		100.6		
Cadmium				5.0		102.4		<u> </u>
Calcium				1000.0	1015.36			
Chromium				5.0		90.4		_
Cobalt				5.0		103.8		
Copper				5.0				
Iron				100.0		80.8		
Lead				11	94.54			
Magnesium				3.0		92.7		
Manganese				1000.0	963.30			
Nickel				10.0	10.03			
Potassium	 			5.0		97.4		
Selenium				1000.0	1084.44			
Silver	} <u>-</u>			5.0		135.2		
Sodium	ļļ			5.0	4.99	99.8		
Thallium		<u></u>		2000.0	1618.98	80.9		
Vanadium				10.0	7.68	76.8		
Zinc			·	20.0	19.88			
21110				20.0	20.04		<u>-</u>	

Control Limits: no limits have been established by EPA at this time

SW-846 METALS

3

BLANKS

Lab Name:	COMPUCHEM	·····	Contrac	ot:			
Lab Code:	LIBRTY	Case No.:	SAS No.:		SDG No.:	R2812	
Preparatio	n Blank Matrix	(soil/water):	SOIL				
Preparatio	n Blank Concen	tration Units	(ug/L or mg/kg):	MG/KG			

1-1-1-1	Initial Calib. Blank (ug/L)	-		С	ontinuing Ca Blank (ug		ration		Preparation Blank		
Analyte	(ug/L)	С	1	C	2	C	3	С	c		М
Aluminum	21.8	U	21.8	U	21.8	U	21.8	Ū	2.180 U	╅	P
Antimony	3.7	Ü	3.7	U	3.7	U	3.7	Ū	0.370 U	十	P
Arsenic	2.5	U	2.5	ט	2.5	V	2.5	Ū	0.250 U	+	P
Barium	0.4	В	0.6	В	0.9	B	0.7	В	0.047 B	+-	P
Beryllium	0.1	U	0.2	В	0.5	В	0.3	В	0.010 U	╁	P
Cadmium	0.4	U	0.4		0.8	В	0.5	В	0.040 U	┿	P
Calcium	9.6	U	25.0	В	22.4	В	11.9	В	0.960 U	十	P
Chromium	0.6	Ū	0.6	Ū	0.6	וט	0.6	υ	0.060 U		P
Cobalt	0.6	Ū	0.6	Ū	0.7	В	0.6	<u></u> ד	0.060 U	┿	P
Copper	1.4	U	1.4		1.4	ט	1.4	Ū	0.140 U	+	P
Iron	13.7	Ü	13.7		13.7	וט	13.7	U	1.370 \		P
Lead	2.3	Ü	2.3		2.3	ט	2.3	Ū	0.230 U		P
Magnesium	62.7	В	86.0		86.2	В	75.0	В	6.166 B		P
Manganese	0.2	U	0.2		0.4	В	0.3	В	0.020 U		P
Mercury	0.1	ט	0.1	U	0.1	ט	0.1	υ	0.020 0		cv
Nickel	1.0	Ū	1.0		1.0	ט	1.0	U	0.100 U	ب_	P
Potassium	172.2	В	164.8	_	295.4	В	269.6	В	24.902 B		P
Selenium	3.3	U	3.3		3.3	U	3.3	U	0.330 U		P
Silver	0.7	U	0.7		0.71	U	0.7	Ū	0.070 0	ㅗ_	P
Sodium	248.7	U	248.7		248.7	U	248.7	U	24.870		P
Thallium	5.1	ט	5.1		5.1	U	5.1	Ü	0.510 U		P
Vanadium	0.7	<u></u>	0.7		0.7		0.7	U	0.510 U		P
Zinc	1.0	U	1.0		1.0	<u>"ו</u>	1.0	Ū	0.070 B		P

SW-846 METALS

3

BLANKS

Lab	Name:	COMPUCHEM		Contrac	ct:			
Lab	Code:	LIBRTY	Case No.:	SAS No.:		SDG No.:	R2812	
Prep	aration	Blank Matrix	(soil/water):	WATER				
Prep	aration	Blank Concent	tration Units (ug	/L or mg/kg):	UG/L			

Pro Jose	Initial Calib. Blank (ug/L)		4	Cc	ontinuing Cal Blank (ug/		6		Preparation Blank	· · · · · · ·	
Analyte	(09,2)	C	1	С	2	С	3	С		С	м
Aluminum	1		21.8	וטן	21.8	U	50.4	В		i	P
Antimony			3.7	וט	3.7	U	3.7	U		İ	P
Arsenic	I		2.5	U	2.5	U	2.5	บ			P
Barium			0.7		0.6	В	0.6	В			P
Beryllium			0.3	В	0.2	В	0.1	В			P
Cadmium			0.6	В	0.4	미	0.4	В	ĺ		P
Calcium	1		11.8		9.6	U	9.6	U			P
Chromium			0.6	U	0.6	ט	0.6	บ			P
Cobalt			0.6	U	0.6	ט	0.6	บ			P
Copper			1.4		1.4	ַ	1.4	U			P
Iron	1		13.7	יט	13.7	ט	13.7	Ū			P
Lead			2.3		2.3	ַ	2.3	U			P
Magnesium			76.1	В	70.7	В	70.3	В			P
Manganese	1		0.2		0.2	U	0.2	В			P
Mercury	Ì		0.1		0.1	U	0.1	Ü			cv
Nickel		ŤŤ	1.0		1.0	U	1.0	U	1		P
Potassium	Ì	1 1	270.1	_	290.9	В	312.4	В			P
Selenium	İ		3.3		3.3	U	3.3	U			P
Silver	i i		0.7		0.7	וט	0.7	υ	<u> </u>		P
Sodium	Ī		248.7	U	248.7	וט	248.7	U			P
Thallium	<u> </u>	1 1	5.1		5.1	U	5.1	Ū			P
Vanadium	i	1 1	0.7	_	0.7	וֹט	0.7	U			P
Zinc	<u> </u>	1 1	1.0	-	1.0	U	1.0	บ			P

SW-846 METALS

3

BLANKS

Name: COMPU	COMPUCHEM Contract:										
Code: <u>LIBR</u>			SAS No.:				SDG No	R2812	R2812		
paration Blan				WATER L or mg		<u>ug/</u> :	<u> </u>				
	Initial Calib. Blank			Continuing Calibration Blank (ug/L)							
5 1 6 -	(ug/L)	1	•	С	2	С	3	С]	С	M
Analyte	(ug/ II)	C	1	Ç	2	C.			<u> </u>		cv

41 sw-846

5W-840 WEIALS

3

BLANKS

Lab	Name:	COMPUCHEM	· — — — — — — — — — — — — — — — — — — —		Contract: _			
Lab	Code:	LIBRTY	Case No.: _	SAS	No.:	SDG No.:	R2812	
Prep	aration	Blank Matrix	(soil/water):	WATER		_	712 7 20	
Prep	aration	Blank Concent	ration Units	(ug/L or mg/kg):	UG/L	_		

Analyte	Initial Calib. Blank (ug/L)			С	ontinuing Ca Blank (ug	11b /L)	ration		Preparation Blank		
		_ c	1	С	2	С	3	С	1	С	м
Aluminum	21.6	<u> </u>	21.8	U	21.8	ן ט	21.8	U	ii — — — —		P
Antimony	3.7	ט 7	3.7	ט	3.7	ט	3.7	Ū	 	 	P
Arsenic	2.5	ט פ	2.5	U	2.5	Ü		Ū	+	 	
Barium	0.4	1 B	0.5	В	0.6			В	 	<u> </u>	P
Beryllium	0.1	U	0.1	-	0.2			<u>ו</u> ט	<u> </u>	<u> </u>	P
Cadmium	0.4	Ū	0.4		0.4			U		L	P
Calcium	9.6	Ū	9.6		10.5			<u>ט</u>	<u> </u>	<u>L</u>	P
Chromium	0.6	U	0.6		0.6			- -	<u> </u>	L	P
Cobalt	0.6		0.6	-	0.6		0.6	<u>ט</u>		<u> </u>	P
Copper	1.4	U	1.4		1.4		0.6	Ü			P
Iron	13.7	Ū	13.7	-	13.7		1.4	U	<u> </u>		P
Lead	2.3	ט	2.3		2.3	لللب	13.7	U			P
Magnesium	61.1	В	67.2	$\overline{}$	70.5		2.3	Ū			P
Manganese	0.2	ט ו		UI	0.2		66.6	В		i	P
Nickel	1.0	└ ─-	1.0		1.01		0.2	U			P
Potassium	118.5	U	120.8		120.8		1.0	U		l	P
Selenium	3.3			_			159.0	В			P
Silver		U	3.3		3.3		3.3	U		Ī	P
Sodium	248.7		0.7		0.7		0.7	U		Ī	P
Thallium	 	บ	248.7		248.7	_ 1	248.7	ַ ט	li		P
Vanadium		<u>ט</u>	5.1		5.1		5.1	U			P
Zinc	 		0.7		0.7	ט	0.7	U			P
	1.0	<u> </u>	1.0	υl	1.0	U	1.0	υİ			P

SYV-04U IVIE I ALIS

5A

SPIKE SAMPLE RECOVERY

SAMPLE NO.

SSMW10-1S

		Contract:			
Lab Name:	COMPUCHEM	SAS No.:	<u>-</u> _	SDG No.:	R2812

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: R2812 Level (low/med): LOW

Matrix (soil/water): SOIL 90.6 % Solids for Sample:

	Control	centration Units (ug/I	c	Sample Result (SR)		Spike Added (SA)	%R	Q	M
Analyte	Limit %R	Result (SSR)	-	0.4094		55.19	75.4		₽
ntimony	75 - 125	42.0382	-	1.2159		1 4.42	89.7		P
rsenic	75 - 125	5.1823	_	4.2945	_	220.75	96.4		P
Barium	75 - 125	217.1319	ᆜ	0.0381	_	1 5.52			P
Beryllium	75 - 12	5.2711	!	0.0381	<u> </u>	5.52			P
Cadmium	75 - 12	5.1538			÷-	22.08			P
Chromium	75 - 12	28.0556		4.4197	-	55.19		Ī	E
Cobalt	75 - 12	-0.01.01		0.5402	_			i	I
Copper	75 - 12	00 COE C		0.3895		2.21			1
Lead	75 - 12	1 1060	<u> </u>	2.6028		55.19	<u> </u>	-	1
Manganese	75 - 12		<u> </u>	4.6071	÷		<u> </u>		10
	75 - 12	0.000		0.0184	<u> </u>	1 55.19	1	 -	+
Mercury	75 - 12		1	0.7625			1	 -	+
Nickel	75 - 12		1	0.3642	<u> </u>		1		+
Selenium	75 - 12	- 0201		0.0773	<u> </u>		<u> </u>		-
Silver		3.9978	3	0.5629	J 6			 -	+
Thallium		50 CO15	_	3.625	71	55.1	<u> </u>		+
Vanadium	75 - 1	55 2000	 -	5.351	2	55.1	9 92.	2	

Comments:	

SW-840 IVILIALS

SPIKE SAMPLE RECOVERY

 SAMPLE NO.
SSMW10-1SD

Lab Name: COMPUCHEM			SSMW10-1SD
		Contract:	
Lab Code: LIBRTY	Case No.:	SAS No.:	
Matrix (soil/water):	SOIL		SDG No.: R2812
% Solids for Sample:	90.6	Level (low/med): LOW	

Concentration Units (ug/L or mg/kg dry weight):

Analyte	1	Centration Units (ug/L Spiked Sample		:): _MG/	KG		
Antimony	Limit %R 75 - 125	Result (SSR) C	Sample Result (SR)	C Spike Added (SA)		T	T
Arsenic	75 - 125	42.1054	0.4094	B 55.1	_	ļΩ	┿
Barium	75 - 125	4.9948	1.2159	1 4.4			Ľ
Beryllium	75 - 125	213.9480	4.2945	220.7			\perp
Cadmium	75 - 125	3.2424	0.0381 B	5.5			1
Chromium	75 - 125	5.1041	0.0442 U	5.5			I
Cobalt	75 - 125	28.0180	4.4197	22.00		<u></u>	F
Copper	75 - 125	52.6553	0.5402 B	55.19	 		P
Lead	75 - 125	21.8315	0.3895 B	27.59	!		P
Manganese	75 - 125	8.0626	2.6028	2.21			_P
dercury	75 - 125	58.0363	4.6071	55.19		<u>N</u>	P
lickel	75 - 125	0.1967	0.0184 U			4	P
elenium	75 - 125	53.4115	0.7625	55.19		-+-	CV
ilver	75 - 125	1.3712	0.3642 U	1.10			P
hallium	75 - 125	4.9543	0.0773 U	5.52		-+-	P
anadium	75 - 125	3.9025	0.5629 U	5.52			P
inc	75 - 125	58.2560	3.6257	55.19			P
		56.1656	5.3512	55.19	99.0		P P

ments:	

5B

POST DIGEST SPIKE SAMPLE RECOVERY

MPI		

Lab Name:	COMPUCHEM			Contract:	··· ···		
Lab Code:	LIBRTY	Case No.:		SAS No.:	SDG	No.:	R2812
Matrix (soi	1/water):	SOIL		Level	(low/med):	LOW	
			Concent	ration Units: u	g/L		•

Analyte	Control Limit %R	Spiked Sample Result (SSR)	С	Sample Result (SR)	С	Spike Added (SA)	%R	Ω	м
Lead		30.09		23.58		6.0	108.5		Р
Thallium		7.92	В	5.10	υ	20.0	39.6		P

Comments:	

6

DUPLICATES

SAMPLE	NO.	

	l servicanto i	
1		

Lab Name:	COMPUCHEM		Contract:		
Lab Code:	LIBRTY	Case No.:	SAS No.:	SDG No.:	R2812
Matrix (soi	l/water):	SOIL	Level (low/med):	LOW	
% Solids fo	or Sample:	90.6	% Solids for Duplicate:	90.6	

Analyte	Control Limit	Sample (S)	c	Duplicate (D)				
Aluminum		1139.0920		971.0672	C	RPD	Q	M
Antimony		0.4094	В	0.7425	↓	15.9 57.8	₩	
Arsenic	1.1	1.2159	-	1.2210		0.4	 	
Barium	1.1	4.2945		3.6150	₩.		₩	F
Beryllium		0.0381	В	0.0369	 	17.2	 	P
Cadmium		0.0442	ט ט	0.0369		3.2	 	Ь
Calcium	110.4	269.3316				1	 	P
Chromium		4.4197		229.8640	├	15.8	 	P
Cobalt		0.5402	В	4.6218		4.5		P
Copper		0.3895	В	0.4211		24.8	 	P
Iron			В	0.2048		62.2	ļ	P
Lead		1514.2360		1404.4050		7.5		P
Magnesium		2.6028		2.0906		21.8	*	₽
		91.6909	В	85.2931	В	7.2		P
Manganese	1.1	4.6071		4.7483		3.0		P
Mercury		0.0184	ַ ט	0.0184	U			CV
Nickel	0.6	0.7625	-1	0.7906		3.6		P
Potassium	110.4	156.6997		149.5658		4.7		₽
Selenium		0.3642	U	0.3642	U			P
Silver		0.0773	Ū	0.0773			1	P
Sodium		57.2429	В	56.9195		0.6		P
Thallium		0.5629	ט	0.5629				P
Vanadium	2.2	3.6257	-#	3.3944	-	6.6	+	P
Zinc	2.2	5.3512		4.5275		16.7	\vdash	

ICP SERIAL DILUTIONS

SA	MP	LE	NO	

SSMW1	0-1L
-------	------

Lab Name: COMPUCHEM			Contract:					
Lab Code:	LIBRTY	Case No.:	SAS No.:	SDG No.: R2812				
Matrix (so	oil/water):	SOIL	Level (low/med):	LOW				

	Concentra	tion	Units: ug/L				
Analyte	Initial Sample Result (I)	С	Serial Dilution Result (S)	С	% Differ- ence	Q	,
Aluminum	10320.17	1	10976.19		6.4	 	T
Antimony	3.71	В	18.50	Ū	100.0		1
Arsenic	11.02	j	12.50	ט	100.0	i	1
Barium	38.91	1	41.86	В	7.6	i	1
Beryllium	0.35	В	0.50	ט	100.0		T
Cadmium	0.40	U	2.00	Ü	i i	Ì	Ti
Calcium	2440.14	i	2572.12	В	5.4	<u> </u>	1
Chromium	40.04		39.64		1.0	i	1
Cobalt	4.89	В	6.67	В	36.4		1
Copper	3.53	В	7.00	Ū	100.0	i	1
Iron	13718.98		14195.63	i	3.5		1
Lead	23.58		32.70	i	38.7	i	1
Magnesium	830.72	В	1111.15	В	33.8	E	1
Manganese	41.74		42.54	В	1.9		1
Nickel	6.91	Î	5.00	U	100.0		I
Potassium	1419.70		2677.14	В	88.6	l	I
Selenium	3.30	Ū	16.50	U		<u> </u>	1
Silver	0.70	U	3.50	ט			I
Sodium	518.62	В	1243.50	U	100.0		I
Thallium	5.10	ט	25.50	บ			I
Vanadium	32.85		32.84	В	0.0	l	I
Zinc	48.48		66.87	В	37.9		E

14

ANALYSIS RUN LOG

Lab Name: COMPUCHEM		Contract:	
Lab Code: LIBRTY	Case No.:	SAS No.:	SDG No.: R2812
Instrument ID Number:	P4	Method: P	
Start Date: 12/16/02		End Date: 12/16/02	

EPA			 	Γ										Ana	aly	te	 \$						_				
Sample	D/F	Time	% R	A	s	A	В	В	C	C	С	С	c	F	P	м	м	н	N	ĸ	8	A	N	Ŧ	Īv	Z	С
No.				L	В	s	A	E	D		R		ט		В	G	N	G	I		E	G	A	L	ľ	N	N
so	1.00	1214		Х	х	х	х	x	x	x	x	х	х	х	x	x	х		х	x	x	x	x	x	x	х	\vdash
S	1.00	1222						Ī	x	Î	х	Г	х	Г	х	Π		Ī	x	Γ	x	x	i	x		x	
S	1.00	1230		X			Ī			x	Γ			x	 	x		i	Ì		<u> </u>	T	i	1	i	1	
S	1.00	1236		İ		х	х	х	Ī	Ì	Î	x	İ		Γ	Ì	х	1		Ì	Γ		i		x		
S	1.00	1241					i			İ	ĺ				<u> </u>					х	<u> </u>	┪	х	<u> </u>	Ī	1	
S	1.00	1247			х	İ		Ī		Ī					Г					<u> </u>	i						
ICV	1.00	1253		х			х	х	х	х	x	х	x	х	1	х	х		x	x	\vdash		х		x	х	
ICV	1.00	1301							_	İ	Ī									 	<u> </u>		1	 		-	
ICV	1.00	1309			х	х	i		Г		i				x	_	Н		T	Т	x	x		x			
ICB	1.00	1317		х	х	х	х	х	х	х	х	x	х	х	х	х	х		x	x			х	x	x	х	;
22222	1.00	1325									Ī			Ī	\vdash		Н				ΙŤ	<u> </u>		Ė			, — ¦
ICSA	1.00	1334		x	х	х	х	х	х	х	х	х	х	х	x	x	х		х	х	x	х	х	х	х	х	T,
ICSAB	1.00	1414		х	х	х	х	х		X		х					х		х				х		х	х	
ccv	1.00	1422		х	х	х	х	х	x	x	х	_	х	_	x	_	х		х	_			х		х	х	-
CCB	1.00	1430		х	х	х	х	x	х	x	х		х		х	_	x		х	_			х		х	х	-i
2222 22	1.00	1439							Г	İ															<u> </u>		i
ZZZZZZ	1.00	1447										П				П	\exists						Н			Н	j
ZZZZZZ	1.00	1456								İΠ		П											Н			Н	-i
ZZZZZZ	1.00	1503								i							-								-		-
ZZZZZZ	1.00	1511															\dashv	\neg		_			H	-		H	
2222 2	1.00	1518								П						Н	\exists						H				
CCV	1.00	1732		x	х	х	х	х	x	х	х	x	х	x	х	х	x		х	х	х	х	x	х	Y	х	¦
CCB	1.00	1739		х		х	_	х	_		х		х	_	x		х		х	_	_	_	Х		х	х	-¦
LRS	1.00	1747		х	x	х	$\overline{}$		_	_		_	х		x	_	х	寸	х		_		х		x	х	-i
ZZZZZZ	1.00	1755			一					i						Н	7	\dashv		-	_			Н	Ĥ		-¦
ZZZZZZ	1.00	1802		Ī	T					i		H					一	-1					T				-i
ZZZZZZ	1.00	1810			j							П					一			ᅥ			٦				-;
22222	1.00	1818			i					i		П					7	_		一			H				-i
ZZZZZZ	1.00	1825										Н	7		_		_	一		_		_				H	-i
ZZZZZZ	1.00	1833			\neg												1	ᅥ									-;
ZZZZZZ	1.00	1840		\neg	\dashv	i	_							- i			ᅱ	-		ᆛ	_				\dashv		-¦
ZZZZZZ	1.00	1848			╗								T		_	H	ᅥ	ᇽ	7	┪	\neg		\dashv	1			-i
ZZZZZZ	1.00	1855			┪	-	一				Н	Н	7		_	\dashv	-	\dashv	\dashv	긤	ㅓ			\dashv	\dashv	\dashv	-¦
ccv	1.00	1903		х	x	x	х	х	х	x l	х	x	x	$\frac{1}{x}$	x	x	x	_	x	χl	$\frac{1}{x}$	x	x	x	Ţ	x	-¦
ССВ	1.00	1911		х	х												$\frac{1}{x}$		x					x		х	-¦
ZZZZZZ	1.00	1918		\exists	_	一	一										1	ᅥ	1	اتــ ا	7						-¦
ZZZZZZ	1.00	1926		Ť	寸	1	寸	_	T)		\dashv	Н	\dashv	\dashv		7	\dashv	\dashv	_		-	\dashv	+	-	-	-	-¦
ZZZZZZ	1.00	1933						i			\dashv		+	\dashv	_	\dashv	+	+	ᅥ		-		ᅥ	+	-	ᅥ	-¦

14

ANALYSIS RUN LOG

Lab Name: COMPUCHEM		Contract:	
Lab Code: LIBRTY	Case No.:	SAS No.:	SDG No.: R2812
Instrument ID Number:	P4	Method:	Р
Start Date: 12/16/02		End Date:	12/16/02

EPA				Т											_	_											
Sample	D/F	Time	% R	_					_						aly												
No.				A L	_	A S	B	B	D	1	R		C	F	P B		M	H	N		S	A G	N A	T	V	z N	C N
ZZZZZZ	1.00	1941	<u> </u>	1	\vdash	-	\vdash	\vdash	H	÷	H	╁╴	\vdash	\vdash	┝	十	-		_	-	\vdash	┼-	╁		1	┝╼┥	
ZZZZZZ	1.00	1948		\vdash	一	一	 	一	1	 	\vdash	╁╌	╁	 	H	 	Н		-	├	╁	╁	 	├	Н	Н	—
ZZZZZZ	1.00	1956		├			 		†-	十	╁	╁	-	┪	1		Н			\vdash	-	-	┢	<u> </u>	\vdash	┢╼╅	_
ZZZZZZ	1.00	2004			Ì	Ι-	<u> </u>	1	┢	t	<u> </u>	\vdash	! 	╁╌	-		Н			┝	 	╁╴	├-	<u> </u>		┝╾┪	_
ZZZZZZ	1.00	2011		1		Н	 		1	\vdash		1-	H	-	\vdash	H	Н	-	_	 	╌	╁	┝	<u> </u>	Н	\vdash	—
ZZZZZZ	1.00	2019	-	1			\vdash		1-	\vdash	┢	╁		-	-	Н	Н			┝	<u> </u>	-	┝	_		┝╼┼	_
ZZZZZZ	1.00	2026		 -	┢		-	 	┢	╁	<u> </u>	_	-	├	 		Н	닉	_	┝	ᆫ		├	<u> </u>	H	\vdash	-
CCA	1.00	2034		x	х	x	x	x	x	x	X	V	v	L v	x	x	x	ᅱ	x	V	Y	x	L V	L		х	
CCB	1.00	2041	*	х	х	x	x	•	_	X		x	x		x	_	X	-	$\frac{\lambda}{x}$			X			x x	X	—
ZZZZZZ	1.00	2049				-	l		-	1	-	^	_	-					_	<u> </u>	<u> ^ </u>	1	<u> </u>	_	쒸	Ĥ	 -
ZZZZZZ	1.00	2057		┝╌					-	-	<u> </u>					Н		\dashv		_	Ļ	├	<u> </u>	L.,	H	井	—
ZZZZZZ	1.00	2104				-	Н		┝			-				Н		\dashv		_	_	-	H			\dashv	_
ZZZZZZ	1.00	2112		Н		<u> </u>		Н	┝			-		_	-	Н	\dashv	-+			L	ļ				-+	_
ZZZZZZ	1.00	2119						Н	-		_	H	Ш	_			\dashv	{	_		<u> </u>	ļ	Н			\dashv	_
ZZZZZZ	1.00	2127					Н						Н	_		Н	\dashv	\dashv	-	_	L				H	ᆛ	
PBS	1.00	2134		х	х	х	х	x	X	X	х	v	x	v	х	V	x	\dashv	v	v	v	х	v	v	7.	x	_
LCSS	1.00	2142		x	х	х	X		<u></u>		X			x	X	_	$\frac{\hat{x}}{x}$	\rightarrow	$\frac{\hat{\mathbf{x}}}{\mathbf{x}}$		_	X		-	X	$\frac{\mathbf{x}}{\mathbf{x}}$	_
SSMW10-1	1.00	2150		х		х	x		x	لببا	x		_	x		-	x	<u>-</u> -	x			x			X	x	-
SSMW10-1S	1.00	2157		\vdash	х	x	х	-4	х		×		$\hat{\mathbf{x}}$	Ĥ	X		$\frac{\lambda}{x}$	<u> </u>	$\frac{}{\mathbf{x}}$			X	_		\rightarrow	<u>^ </u> x	_
CCV	1.00	2205		х	х	х	<u> </u>	х		Щ	x		x	v	X	x I	$\frac{\alpha}{\mathbf{x}}$	_	X	yl		x	v		X	$\frac{2}{x}$	-
CCB	1.00	2212		х		Х	Х		X	<u> </u>	х	_		$\hat{\mathbf{x}}$	$\frac{x}{x}$	\rightarrow	x		$\frac{\hat{x}}{x}$			X			X	$\frac{\hat{x}}{x}$	-
SSMW10-1SD	1.00	2220				X	x		X	<u> </u>	X		$\frac{2}{x}$	Ĥ	x	^	쉾	_	$\frac{\Lambda}{X}$	싀	$\frac{\hat{\mathbf{x}}}{\mathbf{x}}$		_		<u> </u>	$\frac{\hat{x}}{x}$	_ !
SSMW10-1D	1.00	2227		x	-	<u> </u>	x	-	X	_	х	_	$\frac{\mathbf{A}}{\mathbf{x}}$	v	x	. 	$\frac{\lambda_1}{ \mathbf{x} }$		X	v		x	Ţ,		X	솼	_
SSMW10-1L	5.00	2235		x		ㅡ.		-	X	بب	x	_			X		귀	-	<u>^ </u> x	-	-	X			X	A X	-
SSMW10-1A	1.00	2243		+	\exists						-	^ 	쉬	Ĥ	$\frac{\hat{x}}{x}$	$\stackrel{\sim}{+}$	4	-	귀	싁	^	^	_	↑	×	4	-¦
SS-SB03-0	1.00	2250		\mathbf{x}	ᆏ	$\frac{1}{x}$	$\frac{1}{x}$	x	 X	χl	x		↲	Ţ	$\frac{\lambda}{x}$	$\frac{1}{\mathbf{v}}$	x	+	ᆔ	v	v	$\frac{1}{x}$. 		_	xl	_ ¦
SS-SB03-1	1.00	2258		$\frac{n}{x}$	-+	—- <u>!</u>		 }	$\frac{x}{x}$		x		^	_	$\frac{\hat{\mathbf{x}}}{\mathbf{x}}$	_	슀	_	^		X		ب_			$\frac{\lambda}{x}$	-¦
\$S-SB03-4	1.00	2305		x		X			$\frac{1}{x}$		$\frac{\hat{\mathbf{x}}}{\mathbf{x}}$		-+	بند	$\hat{\mathbf{x}}$	_	쉯	-	^ x	<u>^</u>			윘		 -	A X	_
SS-SB02-0	1.00	2313		x		X	-	_	X		x		-+		X		쉾		^	_	_	\rightarrow	بِـــ	-		$\frac{\lambda}{x}$	_¦
SS-SB02-1	1.00	2320		$\frac{x}{x}$			-+	+	x	-	x	-	_	بت	$\frac{\lambda}{x}$	- +	$\frac{\Lambda}{X}$	_	^ x	긺			^] X]		1	<u>^ </u>	_ ¦
SS-SB02-4	1.00	2328		$\frac{x}{x}$	\rightarrow	-+	 }	- +	X		X		-		$\hat{\mathbf{x}}$	_	쉾		_	긲		_	<u>^</u> x∣	-		-	_¦
CCV	1.00	2336			~┼	_ +	}	-+	X		$\frac{\hat{x}}{x}$	_	-+		$\frac{1}{x}$		<u>↑</u>	- +	<u>^ </u>	ب-	-	_		-+		X	-¦
CCB	1.00	2343		$\frac{1}{x}$	\rightarrow	<u> </u>	<u>-</u>	-+	X		X		-+	+	~	_	쉯	_		X X			x x	+	 	X X	_!

14

ANALYSIS RUN LOG

Lab Name:	COMPUCHEM		c	ontract:	-		
Lab Code:	LIBRTY	Case No.:	sı	AS No.:		SDG No.:	R2812
Instrument	ID Number:	P4	Me	ethod:	P		

Start Date: 12/17/02 End Date: 12/17/02

EPA	D/F	Time	8 B	Analytes																							
Sample No.	D/F	Time	* *	A L	S B	A S	B	B	C	C A	C R	0 0	C D	F	PB	M G		H	I	K	S E	A G	N A	T L	V	Z N	C
s0	1.00	1411		X	X	X	Х	Х	X	х	X	x	X	X	X	X	X		X	X	X	x	X	X	х	Х	
S	1.00	1420							x		Х		х		X		·		x		x	x		x		X	_
S	1.00	1428	ł	Х						x				х		X											_
S	1.00	1433	1			х	Х	x				x					х								х		
S	1.00	1439									Ī									X			х		Ī		_
S	1.00	1445			х																						_
ICV	1.00	1451		Х			х	х	х	х	х	х	х	х		X	х		х	X			х		х	х	_
ICV	1.00	1459							Г													Г					
ICV	1.00	1507			х	x				Π	1				Х						x	x	Г	х			_
ICB	1.00	1515		х	Х	х	Х	х	х	х	х	x	x	х	х	X	х		х	Х	X	х	х	х	x	x	
ZZZZZZ	1.00	1523				Ì	Ì	Ī	Γ								П					Г					_
ICSA	1.00	1531	1	х	х	x	x	х	x	х	х	х	х	х	х	x	х		х	х	x	х	x	х	х	х	_
ICSAB	1.00	1540		х	х	х	х	х	х	x	X		x	_	x	х	х		х		-	_	х	_	х	х	
CCV	1.00	1548	<u> </u>	х	х	x	x	х	х	x	х			х	х	х	Х		х	_	_	х	х		х	х	_
CCB	1.00	1556		х	х	х	X	х	х	x	х	_	_	х	х	_	х		х				х	<u> </u>	х	х	
LRS	1.00	1605		х	х	x	х	х	х	x	x		x	_	х		х		х	_	Ь_	⊢	х	_	х	x	
ZZZZZZ	1.00	1613				m		İ			<u> </u>											l				一	_
ZZZZZZ	1.00	1621		П							l														Н		_
ZZZZZZ	1.00	1628			_			H			<u> </u>			\exists				\dashv	Н	_		-					_
99-9B01-0	1.00	1636		х	х	х	х	х	х	x	х	x	x	x	х	x	х		х	X	x	x	x	x	х	х	_
SS-SB01-1	1.00	1644		x	х	х	x	х		_	х		_				х		х	_		_	х		х	х	
SS-SB01-4	1.00	1651		х	х	х	x	х		_	X		х		х	-	х		х		_	_	х	_	x	х	
SS-SB04-0	1.00	1659		х	х	х	х	х	х		Х	_	-	х	х	_	х		x			_	х		х	х	— }
SS-SB04-1	1.00	1706		х	x	х	х	х	x	بب	х		x	_	х		X		х	_	_	_	х		х	х	_
SS-SB04-4	1.00	1714		х	х	х	х	x	х	x	х	_	X	_	x		x	_	х	_	_	_	x	_	х	х	-
ccv	1.00	1721		х	х	_	x	х	_		х		х	-	х		x	_	х				х		х	х	-
ССВ	1.00	1729		х	х	х	х	х	$\mathbf{-}$		х	_	x	_	x	_	x	_	х	_		x	_		х	х	-
SS-SB05-0	1.00	1737		х	х	х	х	_	_	х	х		x	_	х	_	x		х			_	х	_	х	х	-
SS-SB05-1	1.00	1744		x	x	_	x	х	_		х	_	x	_	x	_	х		х	_	_		х		x	х	-
SS-SB05-4	1.00	1752		х	х		x	х	x	_	х		_		x		Х	\dashv	x		_	-	x	_	x	х	}
SS-MW11-0	1.00	1759		х	х	х	x	х	\vdash	x				x			X	_	x				x		x	X	—;
GMW055	1.00	1807		H					<u> </u>	Н			۳	x		Н						F	H	-			-
GMW09	1.00	1814		H					\vdash			Н	H	x	Н		\dashv	러			_	┝		Н	Н	\dashv	—!
GMW06		1822		П					<u> </u>		_	Н	Н	x						ᅱ		 		Н	H	\dashv	-
ZZZZZZ		1830		Н					┝┈			Н	Н			Н		\dashv	Н	ᅱ		<u></u>	Н		H	\dashv	
ZZZZZZ	1.00	1837		Н			 		-	Н	L	Н	Н	Н	Н	Н			Н	4			Н		Н	\dashv	-
ZZZZZZ	1.00	1845		\vdash		_			_			Н	Н				\dashv	-	\dashv	긕		-	H	_	Н	\dashv	-
ccv	1.00	1852		x	х	X	X	х	x	x l	х	v	ابرا	w l	x	X	y		y	y!	y	Y	у	Y	х	х	!

14

ANALYSIS RUN LOG

Lab Name: COM	PUCHEM		Contract:			
Lab Code: <u>LIB</u>	RTY	Case No.:	SAS No.:		SDG No.:	R2812
Instrument ID	Number: V3		Method:	CV		
Start Date:	12/16/02		End Date:	12/16/02		

EPA Sample	D/F	Time	% R									_	_	Ana	aly	te:	9										
No.	2,1	11111	7 8	A L	S	A S	B A	B E	C D	C A	C R			F	P B	M G	M	H G	N	K	S	A G	N A	T	v	Z	C
\$0	1.00	1153							H			Н			H	-		Х	_	╁╴	╁	<u> </u>			-		⊢
S0.2	1.00	1155				П	i		Ī					Н	├	┢	-	x	\vdash	-	1	-		Н	Н	Н	┢
SO.5	1.00	1158										Н					-	X		┝	1	-	Н	<u></u>		H	┝
31	1.00	1200	·											Н				x	_	⊢	 	-	Н			Н	-
S5	1.00	1202							П	Н		H						Х	_	-	_	-	Н			Н	⊢
S10	1.00	1204									一	+	\dashv	Н		٠		X		-	_	<u> </u>			_		_
ICV	1.00	1207						T	_	1	一		\dashv	\dashv			Н	X			Щ		Н			\vdash	-
ICB	1.00	1209						7	-	-	┪	+	_		-	_	\dashv	X		<u> </u>	Н		-	-	_	긕	
CRA	1.00	1211				_	-	_	1		-1	+	1		\dashv		ᅱ	x		Щ						\dashv	—
CCV	1.00	1214		H	-	ᅥ	ᅥ	┪	ᅥ	 	一	-+		\dashv	닉		_	Ŷ	-	Щ	Н	Щ	-	4		ᆛ	
ССВ	1.00	1216		\Box	-1	_		+	ᆛ	+	+	- †	\dashv	-+		\dashv		$\frac{1}{x}$	4	-1	Н	\dashv	 		4	\dashv	
ZZZZZZ	1.00	1218			-	- 1	┪	+	- 	十	\dashv	ᆛ	{	\dashv	ᆛ	 	4	^				-	_		4	-	_
ZZZZZZ	1.00	1220		$\neg \dagger$	寸		+	7	ᅻ		+	ᆛ	\dashv	-1		\dashv	+	\dashv	-	4	-		+	-+	{	-+	
ZZZZZZ	1.00	1223		\neg	-	_	十	\dashv	ᆛ	\dashv	╅	-	ᅥ	-+	-	-	4		4		\dashv	ᅱ	4	4	+	ᆛ	
ZZZZZZ	1.00	1225		\dashv	+	ᅻ	-+	-+	-	+	-	+	+	ᆉ	-+	+	\dashv	-+	-{		ᆜ	4	4	-	4	4	_
ZZZZZZ	1.00	1227		十	+	+	ᆉ	ᅥ	+		╣	ᅻ	\dashv	\dashv		+	+	+	4		4	-	4	-		4	_
ZZZZZZ	1.00	1229		-+	\dashv	┪	+	-	ᅻ		-+	- 	+	\dashv	-	\dashv		-	4	ᆛ	4			4	4	4	_
ZZZZZZ	1.00	1232		\dashv	+	+	+	-+		-	井	- -	+	+	4	+	4	-	_	4		4	-∔	4	4	4	
ZZZZZZ	1.00	1234		╅	+	ᆉ	+	\dashv	+	 -	+	+	\dashv	+	+		-	_	-	4	\dashv	-	Ļ	4	4	4	
ZZZZZZ		1236		\dashv	-+	+	+	+	+	-	\dashv		+	+	4	4	+	+	4	4	-	-	4	_	4	4	
ZZZZZZ		1238		+	\dashv		\dashv	\dashv	-+	-+	\dashv	ᆜ-	4	+	\dashv	4	4		4	4	[4	Ļ	_	4	4	_
CCV		1240		+	\dashv		+	+	ᆛ		+		-	4	-1	+	4	_	4			_	_ļ	_	4	ユ	_
ССВ		1243	<u>}</u>	\dashv		- +	\dashv	+	4	+	+	Ļ.	4	+	4	4	-	X	4	4	4	4	ᆜ	_ _	1	4	_
ZZZZZZ		1245		\dashv	+	+		+	4		+	+	4	4	+	4	4	X	4	ļ	_	_		4	_	4	_ :
ZZZZZZ		1247		+	\dashv		+	+	+	-	+	+	+	+	-	4	4	4	4	_	4	Ļ	1		_		_
ZZZZZZ	- -	1249		+	-+	+		+	4	+	+	丰	4	-	4	4	4	4	1	ᆛ		1	_ļ_	ᆛ	_	丄	_ !
ZZZZZZ		1252		+	+	+	+	-	+	<u> </u>	4	+	+	4	4	+	4	4	1	ļ	_	_	Ļ	_	1	丄	_ [
ZZZZZ		1254		+	 -		+	+	4	+	+	4	+	4	_	4	4	4	4	Ļ	\perp	4	1		ļ	丄	_
2222		1256		+	-+	+	4	_	4	 	4.	Ļ	4	4	\downarrow	4	_	_ _	4	\perp			\perp	\perp		\bot	_
ZZZZZ		1258		+	+	<u> </u>	- -	+	Ļ	4	\downarrow	Ļ	4	\perp	1		ļ	1	1	⊥			\perp	_[_		\perp	_1
222ZZ		1301	+	+	+	<u>.</u>	+	4	4	丰	4	Ļ	1	4	1	4	_	\perp	Ţ	\perp	\perp	\perp	1	\perp		\perp	_
ZZZZZ			+	-	+	4	4	+	Ļ	<u> </u>		Ļ	1	_	1	\perp	_ _	╧	_ _	┸	\perp					\perp	_]
22222	1.00			-	1	ᆜ	-	4	4	Ļ	4	\bot	- -	1	_ _	1	\perp	\bot	Ţ	\perp	\perp		1			\perp	_
CV	1.00			+	+	+	+	+	4	Ļ	1	<u>Ļ</u>	4	4	1	1	ļ		ļ	\perp	\perp			\perp	\perp	\int	_
СВ	1.00		-+	+	_}_	\downarrow	-	4	4	ㅗ	\downarrow	1	4	4	1	\perp	_	x	\perp	\perp				\perp	\int	\int	_
ZZZZZ			-+	+	4	<u> </u>	+	4	Ļ	Ļ	\downarrow	1	1	\perp				x		\perp		$oldsymbol{\mathbb{L}}$	Ī	Ī	\int	\int	_[
22222	1.00			4	\bot	Ļ	丄	_	丄	_Ļ_	\perp	\perp	Ţ		\perp			\perp	\mathbf{I}	$\overline{\mathbb{J}}$	Ī	\int	J	J		T	<u> </u>
ZZZZZ	1.00			<u>Ļ</u>	Ļ	ــــــــــــــــــــــــــــــــــــــ	1.	↓	Ţ		1	\perp	\perp					\int	\int	Ī	Ţ	Τ	T	T	T	T	Ī
	1.00	1316		\perp	╛	╝	╛		1	1	1	Γ	Γ	Τ	T	T	Ī	T	1	Î	1	7	1	1	\top	丁	~i

14

ANALYSIS RUN LOG

Lab Name: COMPUCHEM								c	on	tra	ct:															
Lab Code: LIBRTY		Case	No.:					9	AS	No	. :	_				5	SDG	No	o.:	Ē	28	12				
Instrument ID Number:	P4							M	et	pod	:	F	<u> </u>													
Start Date: <u>12/17/0</u>	2							E	nd	Da	te:	1	.2/	<u>17</u>	/02			_								
EPA		· · · · · ·					_						Aı	a 1	yte	8			,							
Sample No.	D/F	Time	% R	A	s	A	В	В	c		С		CE		M				ĸ	s	A	N	T	v		C
NO.				L	В	8	A	E	D	A	R	0	U E	1	3 G	N	G	I		E	G	A	L		N	N
CCB	1.00	1900		Х	X	Х	X	X	X	X	X	x	K 3	K :	X	Х		Х	Х	X	х	X	Х	x	X	

	П	T	П	Т	Т	7:	κŢ	\neg	T	T	П	Т	T			٦	П				П		1443	00.t	9S-SB02-0
++	╁┪	\dagger	寸	寸	7	-	ĸ	寸	7	_	寸	Ť	Ť	寸	T	7	Ť	Ť			T		Itto	00 T	\$-\$B03-\$S
	╁	-+	\dashv	寸	-		x	十	寸	_	+	寸	1	-i	寸			Ť			一		1438	00,1	28-SB03-1
++-	H	\dashv	+	寸	\dashv	-	x	寸	7	寸	†	┪	7	Ť	寸	一		-i			T		3691	00.I	0-6088-82
++-	╁	+	\dashv	寸	\dashv	-	x	+	┪	_†	寸	寸	-	۳i	寸	\dashv	\neg	T					EEPT	00,I	QST-OTMWSS
	╫	+	╅	÷	┽	- +	x	-†	┪	一	-	-i	\dashv	۳i	i	┪	$-\dagger$	一			╗		TEPT	00.Ι	CCB
	┞╌	-	-	+	┵	_	x	-+	ᅱ		\dashv	÷	- 1	_ <u></u>	╌┆	┥	ᅥ		-	Н				00.1	CCA
	╀┼	-+	-+	┽	+		· x	\dashv	\dashv	╌┤	\dashv	ᆉ	+		÷	┪		一		Н			_	00.τ	ST-OIMWSS
				ᆛ	-	-	- i	-	-			┪		-	-					Н	-			00.1	QT-OTMWSS
++	\square	-+	-	_	-	-	x	-		- {		╌┼			-	-	-	\dashv		-	-			00.1	I-OIMMSS
			ᆛ	-	\dashv		X					+	┥		-	-			-				 	00 τ	rcss
	\sqcup			_	\dashv	-+	x		_		-		-			_			-	 				00.1	SEG
++	\perp	_	_			4	×	-	-	Н		¦							!					00.1	222222
$\bot\bot$				_	-	4	_	4	_			_	_						<u> </u>				 		· · · · · · · · · · · · · · · · · · ·
$\bot \bot$				_	_	4	_	_	_				_					_					 	00.I	222222
			_	_ļ	_	ļ	_						Ц	_					<u> </u>	ļ				00 T	327277
\bot]	_!	_ļ	_	_	_]							Щ			_	_	<u> </u>	_			00 T	272772
										Щ													+	00.τ	222222
							x									_			_	Ļ	Щ		├	00.1	CCB
							х												<u> </u>	L_				00.I	ccv
T																				<u> </u>			6561	1 00	ZZZZZZ
$\top \top$										"				L.								. 	LSET	00.1	22222
\top	Ť																						1322	1.00	ZZZZZZ
	 																						1352	00.1	222222
11	ŤΤ	İ	-																				1320	00.1	22222
	\top		_										Γ			Γ			Π	Ţ			1348	00.1	222222
+ †	\dagger					7							Γ						Π				9727	00.I	22222
TT	Ť	H											Γ						Π				1343	00.1	722222
	+	İΠ		H					Γ	İ				Г	Γ								IPEI	1.00	222222
++	+-	H	_		П			Г	Т		Г		Г		Ī	Γ	İ		Γ				1339	1.00	222222
	┿						x	Г	<u>├</u>	1			Ť	ļ 🗆	Ť	Ė	İ			Γ	Г		TEET	00.1	CCB
╌╂╌	+		_				x			1	Т		İ	T	İ		T	Г	Г				PEET	1.00	CCA
	╁	-	_		П					一			İΤ		İ	İ		<u> </u>	Ĺ	İ			1335	00.1	222222
++	╁	╁	 				\vdash	\vdash		\vdash	 	H	i		İ	i –	1		Ť	T			DEET	00.1	222222
	╁╌	<u> </u>	\vdash		Н		┝	1	\vdash	 	\vdash	H	İΤ	一	İΤ	İ	Ħ	İ	Ť	t^-	Т		1327	00.1	22222
╏╾╂╾╂╴	╁	╁	\vdash	\vdash	╁┈	-	 -	-	\vdash	╁┈	\vdash		!	\vdash	t	H	\vdash	H	Ť	†	H		1352	1.00	22222
╏┷┼	十	 	├	\vdash		\vdash	┢┈	_	-	\vdash	\vdash	╁	H	\vdash	tΞ	╁	†	İΤ	╁╴	\dagger	T			1.00	222222
╏┷┼┼	+-	╁╴	-	⊢	<u> </u>	 	<u> </u>	 	\vdash	-	+	 -	╁	+-	╁╌	 	┢	\vdash	╁	+-	\vdash			00 T	22222
		├-	-	\vdash		\vdash	-	╁	\vdash	+	╁╌	1	╁	\vdash	╁╴	╁╌	十	╁╴	÷	+-	十			00 T	22222
┝╌┼╌┼╴	╀-	一	H	╀	느	\vdash	 	╁╴	┪	╁	\vdash	_	\vdash	十	十	╁	\vdash	十	十	T	t		1	Ī	
ии		A				I	Đ		9					Я	A			B		B					, oN
3 Z /	V T	N	A	ទ	K	N	Н	٠	_	₫		၁	13	2	2	Э	1 4	l a	I W	13	J &	я.	∋miT	D\E	RPA Sample
						_				7.7.F	17			; e :	bo. sa			_				<u> </u>	1	EA	netrument ID Number:
		71	82	<u>. A</u>	: - 0	οN	DС	S	-				_		ОИ			_				: . oM	Сазе		nb Code: LIBRTY
														:40	E T	a u c	2								р изше: СОМБЛСНЕМ

2M-240 MELVEZ

										8	9 7/	Z T w	πĀ											я ғ	emiT.	.a./a	'	EPA Sample
Z	1	7 T		1 -	S	K	I N			N :			E		0		¥ ⊃	a O	B	a A	S	8	A J					. ом
十	+	+	十	╁	十	┿	┿	<u> x</u>	+	+	+				Щ	لبا	Ļ	<u> </u>	<u> </u>	L	L.		L		SPPT	00.I		1-20ES-SS
+	t	+	╁	╁╌	╁	╁	╁			+	+	-		-	Щ		┞	<u> </u>	<u> </u>	_	<u> </u>	<u> </u>	匚		LPPT	00.I		\$2-SB02-4
+	\dagger	+	╁	+	+	┿	+	T _x	-	+	+	_{	_		_	<u> </u>	<u> </u>	┞	<u> </u>	<u> </u>	!	<u> </u>	_		1420	00 ' τ		0-1085-55
十	十	十	Ť	╁	+	÷	╁	Tx		\dashv	-+					L	L	<u>L</u>	┞-	┞-	 	┞	L		1422	00.τ		1-1088-88
\top	\dagger	\top	Ť	╁	+	+	╁			+	+		_	_	<u> </u>	┞	 	╀-	├_		 	 	_		PSPI	00.1		P-TOHS-SS
十	\dagger	十	Ť	╁	\dagger	╁	+	- <u>-</u> -		+	ᆛ		_	<u> </u>	┞	╀	Ł	1	├-	╀_	-	<u> </u>	Ļ		9571	00.£		CCA
+	+	十	Ť	╁	+	╁	+	+;	_	-	ᆛ		-	L	 	L	<u> </u>	<u> </u>	L	╀-	<u> </u>	<u>Ļ</u>	L		69) I	00.1		CCB
╁	\dagger	┰┼	╁	╁	+	╁	╁	÷	-	+		<u> </u>	-	-	╀	┡	 	╀	↓	↓_	<u> </u>	↓_			TOST	00 T		0-108S-SS
十	\dagger	+	╁	╁	+	┿	+	-	K	4	_	_	├-	-	L	╄	 	╀	Ļ	Ļ	<u> </u>	╙	L		1203	00.I		T-\$085-SS
\dagger	\dagger	十	÷	╁	+	÷	+	÷	k	┪	-	┡	_	┞	L	┼-	╀	╀	Ļ	╄	ㅗ	L	L	<u> </u>	1206	00.I		7-70ES-SS
十	7	+	Ť	+	+	┿	+	-	x	\dashv	_	-	├	┝	╀	╄-	 	 	╁	╀	$oldsymbol{\downarrow}$	┸	\perp	ļ	80ST	00 τ		0-5085-8
十	┪	寸	÷	┿	╅	╁	╣	-	î	_		├	╀	╀	+	╀	Ļ	╀	\downarrow	+	 	↓_	\perp	ļ	OTST	00 τ		1-S082-E8
寸	┪	十	Ť	+	十	╁	\dashv	_	x			┼-	 	┼-	╀	╀	Ŧ	+	\bot	╀	1	╄	╀		ETST	1.00		7-S08S-S
十	\dashv	+	-+	+	+	╁	4	÷	x	_	-	╀	╀	╀	╀	╀	+	╀	\bot	4_	1	\perp	L	1	STST	1.00		0-11MM-55
\dashv	ᅥ	\dashv	+	+	+	+		-	x		<u> </u>	╀	╀	╁.	 	+	+	\downarrow	\downarrow	\bot	\perp	\perp			4151	1.00		ZZZZZZ
+	\dashv	-+	╁	+	+	ᆛ	-{	4		_	L	╀	+	+	+	1	1	\perp	\downarrow	1		\perp	\perp		6151	τ 00		22222
\dashv	7		┽	+	┪	ᆛ	┥			-	⊢	╀-	╀-	+-	╀	╀	4	1	\perp	1					1252	1.00 I		22222
+	-	H	- ¦	-+	╣		_	{	X	<u> </u>	L	+	Ļ	+	1	╁.	\downarrow	4	\perp	\perp		1			224	1.00		CΔ
\dashv	_	\vdash	╌┼	\dashv	\dashv	-;	-	-	X	_	╀	╀	┰	╀	╀	4	ᆛ	4	\perp	\bot		\perp	1	_L	975	1 00 T		СВ

Start Date:	12/16/02			End Date:	12/16/02			
Instrument ID	: дешрек:	V3	-	Method:	CA			
rsp code: <u>FIB</u>		Сазе Ио.:		:.on sae		SDG No.:	F2812	
rep Neme: COM	VEUCHEM			Contract:				

YNALYSIS RUN LOG

Þ١

2M-840 WELVER

CompuChem

a division of Liberty Analytical Corporation 501 Madison Avenue Cary, N.C. 27513

Tel: 919/379-4100 Fax: 919/379-4050

SDG NARRATIVE SDG #S2812

SAMPLE IDENTIFICATIONS: TRIPBLANK ER-SS-120402 ER-SS-121002 TRIPBLANK2

The four water samples listed above were received intact, at 3.5, 4.9, 4.0, and 2.6 degrees C, in sealed shipping containers, on December 04, 09, and 11, 2002. All samples were submitted for volatile analysis, and samples ER-SS-120402, and ER-SS-121002 were also submitted for semivolatile, pesticide-PCB, and metals analysis. The volatile samples were prepared and analyzed following SW846 Method 8260, and this portion of the SDG narrative will only cover the volatile data. All pertinent Quality Assurance Notices are included in the narrative section, and all pertinent Laboratory Notices for SDG # S2812 are included in the sample data sections.

Analysis Holding Time(AHT) requirements were met for all samples except TRIPBLANK, which was inadvertently misplaced, and was later analyzed five days out of AHT. This sample did however meet all QC criteria, and did not contain any reportable levels of target analytes. All sample pH values were less than 2.0, and a copy of the pH results accompanies this narrative.

No Target Compound List(TCL) analytes were identified above the reporting limits in the submitted samples.

Other than laboratory artifact peaks, no reportable Tentatively Identified Compounds (TICs) were present in the submitted samples.

All Bromofluorobenzene (BFB) abundance criteria were met for tunes associated to this SDG. Overall QC criteria were met for all initial and continuing calibration standards associated to this SDG.

The system monitoring compounds(SMCs) met recovery criteria in the analyses of these samples, and all of the internal standards met retention time and response criteria in the analyses of these samples.

The associated method blanks met all quality control criteria, and did not contain any target analytes above the reporting limits.

No duplicate matrix spikes were generated, however the associated Laboratory Control Samples (LCSs) met all accuracy requirements.

Manual quantitations were performed on the process files in some of the the associated initial, and continuing calibration(s). The reasons have been coded with explanations provided in the notice included in the narrative section of this SDG.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Roy Sutton
Case Reviewer

December 23, 2002

FORM 5 VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK BROMOFLUOROBENZENE (BFB)

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: \$2812

Lab File ID: BG021222A59

BFB Injection Date: 12/22/02

Instrument ID: 5972HP59

BFB Injection Time: 1534

GC Column: ZB624 ID: 32.00 (mm)

Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50 75 95 96 173 174 175 176	15.0 - 40.0% of mass 95 30.0 - 60.0% of mass 95 Base Peak, 100% relative abundance 5.0 - 9.0% of mass 95 Less than 2.0% of mass 174 Greater than 50.0% of mass 95 5.0 - 9.0% of mass 174 95.0 - 101.0% of mass 174 5.0 - 9.0% of mass 176	34.8 50.2 100.0 7.3 0.0 (0.0)1 107.4 7.0 (6.5)1 106.7 (99.4)1 6.4 (6.0)2
	1-Value is % mass 174 2-Value is % mass	176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA	TAD			
	SAMPLE NO.	LAB	LAB	DATE	TIME
	JAMIFUE NO.	SAMPLE ID	FILE ID	ANALYZED	ANALYZED
01	VSTD050	VSTD050		========	========
02	VBLKHE		CS021222A59	12/22/02	1605
03	VHELCS	WG22051-1	WG22051-1A59_T	12/22/02	1651
04		WG22051-4	WG22051-4A59_T	12/22/02	1726
05	TRIPBLANK	S28212-1	S2812-1RA59 -	(12/22/02)	1759
06			·		<u> </u>
07					
08					
09					
10					
11					
12					
13	·				
14					
15					
16					
17					
18					
19					
20					
21					
22					
age 1 of 1	•		·		

FORM V VOA

FORM 5 VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK BROMOFLUOROBENZENE (BFB)

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: S2812

Lab File ID: BF021213A52

BFB Injection Date: 12/13/02

Instrument ID: F50052

BFB Injection Time: 0947

GC Column: DB624 ID: 0.53 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50 75 95 96 173 174 175 176	15.0 - 40.0% of mass 95 30.0 - 60.0% of mass 95 Base Peak, 100% relative abundance 5.0 - 9.0% of mass 95 Less than 2.0% of mass 174 Greater than 50.0% of mass 95 5.0 - 9.0% of mass 174 95.0 - 101.0% of mass 174 5.0 - 9.0% of mass 176	18.4 44.5 100.0 6.6 0.0 (0.0)1 54.8 3.7 (6.7)1 53.3 (97.4)1 3.5 (6.6)2
	1-Value is % mass 174 2-Value is % mass	176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
02 03 04 05 06	*	VSTD050 WG21847-1 WG21847-4 S2812-2	CT021213A52 WG21847-1A52 WG21847-4A52 S2812-2RA52	12/13/02 12/13/02 12/13/02 12/13/02	1127 1221 1254 1555
07 08 09 10 11					
13 14 15 16 17 18					
19 20 21 22 page 1 of 1					

FORM V VOA

FORM 7B VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: S2812

Instrument ID: F50052 Calibration Date: 12/13/02 Time: 1127

Lab File ID: CT021213A52 Init. Calib. Date(s): 12/11/02 12/11/02

Init. Calib. Times: 1105 1446

GC Column: EQUITY624 ID: 0.53 (mm)

		RRF50					
COMPOUND	RRF or	or	CCAL	MIN	%D or	MAX %D or	•
	AMOUNT	TRUOMA	RRF50	!	%DRIFT	%DRIFT	TYPI
		0.5298629	•			1	
DichlorodifluoromethaneChloromethane		0.3334403					ſ
Vinyl Chloride		0.3334403				•	•
Bromomethane		0.3496163		:		!	
Chloroethane		0.2111678				1	,
Trichlorofluoromethane		0.5815265					
1,1-Dichloroethene		0.3109454	•				,
Carbon disulfide	1.1700000	1.0468510	1.0468510	0.001	-10.52	•	
1,1,2-trichloro-1,2,2-triflu	212.44969	250.00000	0.8385640	0.001	-15.02		
Acetone		625.00000				•	
Methylene Chloride		0.3258964					
trans-1,2-Dichloroethene		0.3488106					•
Methyl-tert-butyl ether	0.5440000	0.5327182	0.5327182	0.001		•	AVR
1,1-Dichloroethane	0.7880000	0.7062650	0.7062650	0.1	-10.37	90.00	AVR
cis-1,2-Dichloroethene		0.3793047					
2-butanone		625.00000					
Chloroform		0.6975745					
1,1,1-Trichloroethane	!	0.5909271	•		•	i	•
Carbon Tetrachloride		0.5984927		ļ	!		
Benzene		0.9520520					
1,2-Dichloroethane		0.3592240					
Trichloroethene		0.3666972				ļ	•
1,2-Dichloropropane		0.4804024					
Bromodichloromethane		0.6990961				•	,
cis-1,3-Dichloropropene		0.5547600					
4-Methyl-2-pentanone		0.2710317				•	•
Toluene trans-1,3-Dichloropropene		0.7736566				!	
1,1,2-Trichloroethane		0.5142027					!
Tetrachloroethene		0.3731697				1	
2-hexanone		0.3977337					
Dibromochloromethane		0.6497375				•	
1,2-Dibromoethane		0.5003841					
Chlorobenzene		0.9617061			:		•
Ethylbenzene		0.4772031				•	
Styrene		0.9132293				•	•
Bromoform		0.3991900			•	!	
Isopropyl Benzene		1.5632124				!	•
1,1,2,2-Tetrachloroethane		1.3480569			!		
1,3-Dichlorobenzene		1.4764424				•	•
1,4-Dichlorobenzene		1.6269243				90.00	AVR
1,2-Dichlorobenzene	1.4290000	1.2475445	1.2475445	0.001	-12.70	,	
age 1 of 2	l	l	ĺ	İ	İ	İ	İ

A division of Liberty Analytical Corporation 501 MADISON AVE. CARY, NC 27513 (919) 379-4100

SDG NARRATIVE

SDG #S2812 PROTOCOL: SW-846 METHOD: 8270C

SAMPLE IDENTIFICATIONS:

ER-SS-120402

ER-SS-121002

The two (2) water samples listed above were received intact, properly refrigerated, with proper documentation, in sealed shipping containers, on December 6 and 11, 2002. Because of problems with electric power and system down-time due to an ice storm, sample ER-SS-120402 was logged into the Laboratory Information Management System (LIMS) on December 9, 2002. The receipt date that appears on the data for this sample is 12/09/02. The samples were scheduled for the requested analyses of the semivolatile fractions. SW-846, 3rd Edition, Update 3, Separatory Funnel Extraction (Method 3510C) and Method 8270C were used to prepare and analyze these samples, with the exceptions and/or additions requested by the client.

All pertinent Quality Assurance Notices are included in the narrative section, and all pertinent Laboratory Notices are included in the sample data sections.

SEMIVOLATILE

Extraction and analysis holding time requirements were met for all of these samples. No semivolatile target analytes were identified above the Quantitation Limits (QL) in the samples.

Five Tentatively Identified Compounds (TICs) were detected in sample ER-SS-121002. These TICs were assessed as unknowns.

Manual quantitations were performed on one or more of the process files associated with the samples in this SDG. The reasons have been coded with explanations provided in the notice included in the narrative section of the SDG.

OC SUMMARY

All decafluorotriphenylphosphine (DFTPP) abundance criteria were met for tunes associated to this SDG. Tailing factor criteria were met for pentachlorophenol and benzidine. The breakdown criterion was met for DDT. These three compounds have been added to the DFTPP solution and analyzed together. Overall QC criteria were met for all initial and continuing calibration standards associated to this SDG.

The surrogates met recovery criteria in the analyses of these samples. The internal standards met response and retention time criteria in the analyses of these samples.

FORM 5 SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.:

SAS No.: SDG No.: S2812

Lab File ID: DF021210B64

DFTPP Injection Date: 12/10/02

Instrument ID: 5972HP64

DFTPP Injection Time: 2149

	Togetton till	ie: 2149
m/e ===== 51 68 69 70 127 197 198 199 275 365 441 442 443	ION ABUNDANCE CRITERIA ===================================	RELATIVE ABUNDANCE ====================================

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

		- TOPPONTING	SAMPLES, MS, MS	D, BLANKS,	AND STANDARD
01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22	SBLKBD SBDLCS	LAB SAMPLE ID	LAB FILE ID ====================================	DATE ANALYZED ====================================	TIME ANALYZED ====================================
		LOKM A	CIV		

FORM V SV

FORM 7B SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM

Contract: 8270C

ab Code: LIBRTY Case No.: SAS No.: SDG No.: S2812

Instrument ID: 5972HP64 Calibration Date: 12/10/02 Time: 2245

Lab File ID: HH021210B64 Init. Calib. Date(s): 11/25/02 11/25/02

Init. Calib. Times: 2041 2337

GC Column: RTX-5MS ID: 0.32 (mm)

	l I	RRF80.000				
COMPOUND	RRF OR	OR	MIN	%D OR	MAX %D OR	CURV
	AMOUNT	AMOUNT	RRF	%DRIFT	%DRIFT	TYPE
=======================================	=======	=======	====	======	=======	•
N-Nitrosodiphenylamine	0.5380000	0.4894140	0.01	-9.03	20.00	AVRG
4-Bromophenyl-phenylether	0.2810000	0.3021985	0.01			
Hexachlorobenzene		0 3466839			!	•
Atrazine		Q .0439843		-67.66		•
Pentachlorophenol	0.1940000	0.1893741	0.05	-2.38	20.00	AVRG
Phenanthrene	1.1760000	1.1620256	0.01	-1.19	50.00	AVRG
Anthracene		1.2236479		4.67	50.00	AVRG
Carbazole		1.0283960		1	<u>I</u>	!
Di-n-butylphthalate	1.4730000	1.7530456	0.01	I	•	•
Fluoranthene	1.3470000	1.4565602	0.01	8.13	20.00	AVRG
	1.3850000	1.4257478	0.01	2.94		•
PyreneButylbenzylphthalate	0.6860000	0.7934586	0.01	15.66	50.00	AVRG
3,3'-Dichlorobenzidine	0.4470000	0.4549664	0.01	1.78	50.00	AVRG
s(2-ethylhexyl) Phthalate	0.8820000	0.9987223	0.01	,	E .	
nzo(a)anthracene	1.2920000	1.3448715	0.01	4.09	50.00	AVRG
Chrysene	1.1240000	1.1734410	0.01	4.40	50.00	AVRG
Di-n-octylphthalate	2.1280000	2.4580663	0.01	15.51	20.00	AVRG
Benzo(b) fluoranthene	1.7930000	2.1035716	0.01	17.32	50.00	AVRG
Benzo(k)fluoranthene	1.7300000	1.5053318	0.01	-12.99	50.00	AVRG
Benzo(a)pyrene	1.5360000	1.5537237	0.01	1.15	20.00	AVRG
Indeno(1,2,3-cd)pyrene	1.4840000	1.7577786	0.01	18.45	50.00	AVRG
Dibenzo(a,h)anthracene	1.4070000	1.5971277	0.01	13.51	50.00	AVRG
Benzo(g,h,i)perylene	1.4260000	1.6117436	0.01	13.02	50.00	AVRG
		=======	=====	======		
2-Fluorophenol		1.5078525	0.01	-4.75	50.00	AVRG
Phenol-d5	1.8140000	1.9594082	0.01	8.02	50.00	AVRG
Nitrobenzene-d5	0.5440000	0.5017527	0.01	-7.77	50.00	AVRG
2-Fluorobiphenyl	1.3700000	1.3772466	0.01	0.53	50.00	AVRG
2,4,6-Tribromophenol	0.3780000	0.4168169	0.01	10.27	50.00	AVRG
Terphenyl-d14	11.0500000	1.0567551	0.01	0.64	50.00	AVRG

page 2 of 2

FORM VII SV

FORM 5 SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: S2812

Lab File ID: DF021215A64

DFTPP Injection Date: 12/15/02

Instrument ID: 5972HP64

DFTPP Injection Time: 1059

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51 68 69 70 127 197 198 199 275 365 441 442 443	30.0 - 80.0% of mass 198 Less than 2.0% of mass 69 Mass 69 relative abundance Less than 2.0% of mass 69 25.0 - 75.0% of mass 198 Less than 1.0% of mass 198 Base Peak, 100% relative abundance 5.0 to 9.0% of mass 198 10.0 - 30.0% of mass 198 Greater than 0.75% of mass 198 Present, but less than mass 443 40.0 - 110.0% of mass 198 15.0 - 24.0% of mass 442	### ##################################
	1-Value is % mass 69 2-Value is % mass	'442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21	SSTD080 SBLKCN SCNLCS ER-SS-121002	SSTD080 WG21890-1 WG21890-2 S2812-3	HG021215A64 WG21890-1A64 T WG21890-2A64_T S2812-3A64		1121 1235 1310 1531
22 age 1 of 1					!

FORM V SV

FORM 7B SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM

Contract: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: S2812

Instrument ID: 5972HP64 Calibration Date: 12/15/02 Time: 1121

Lab File ID: HG021215A64 Init. Calib. Date(s): 11/25/02 11/25/02

Init. Calib. Times: 2041 2337

GC Column: RTX-5MS ID: 0.32 (mm)

		RRF80.000			<u> </u>	T 1
COMPOUND	RRF OR	OR	MIN	%D OR	MAX %D OR	CURV
	AMOUNT	AMOUNT	RRF	*DRIFT	%DRIFT	TYPE
	=======	=======	=====	======		====
N-Nitrosodiphenylamine	0.5380000	0.5288945	0.01	-1.69	20.00	AVRG
4-Bromophenyl-phenylether_	0.2810000	0.2691084	0.01	•	•	, ,
Hexachlorobenzene		0.3172529		-5.01		
Atrazine	0.1360000	0.0401443	0.01	-70.48	:	AVRG
Pentachlorophenol	0.1940000	0.1734401	0.05			
Phenanthrene	1.1760000	1.1199202	0.01			
Anthracene	1.1690000	1.1147309	0.01	-4.64		
Carbazole	1.0480000	1.0769835	0.01	2.76	,	
Di-n-butylphthalate_	1.4730000	1.6692945	0.01	13.33		
Fluoranthene	1.3470000	1.3767164	0.01	•	•	
Pyrene	1.3850000	1.3321146	0.01		50.00	
Butylbenzylphthalate	0.6860000	0.7588353	0.01	10.62		
3,3'-Dichlorobenzidine	0.4470000	0.4378148	0.01	-2.05	50.00	
is (2-ethylhexyl) Phthalate	0.8820000	0.9705072	0.01	10.03		
enzo(a)anthracene	1.2920000	1.3056392	0.01	1.06		1 1
Chrysene	1.1240000	1.1573109	0.01	2.96		- 1
Di-n-octylphthalate	2.1280000	2.3865239	0.01	12.15	20.00	
Benzo(b) fluoranthene	1.7930000	2.0231746	0.01	12.84	50.00	
Benzo(k)fluoranthene	1.7300000	1.4718247	0.01	-14.92	50.00	
Benzo(a)pyrene	1.5360000	1.4319274	0.01	-6.78	20.00	
Indeno(1,2,3-cd)pyrene	1.4840000	1.4707371	0.01	-0.89	50.00	
Dibenzo(a,h)anthracene	1.4070000	1.3916992	0.01	-1.09	50.00	
Benzo(g,h,i)perylene	1.4260000	1.3284543	0.01	-6.84	50.00	•
			=====	1		
2-Fluorophenol	1.5830000	1.4499643	0.01	-8.40	50.00	
Phenol-d5		1.8170730	0.01	0.17		
Nitrobenzene-d5		0.5773216	0.01	6.12	50.00	
2-Fluorobiphenyl	1.3700000		0.01	28.08	50.00	
2,4,6-Tribromophenol		0.3907479	0.01	3.37	50.00	
Terphenyl-d14	1.0500000		0.01	-2.38	50.00	
					30.00	

page 2 of 2

FORM VII SV

CompuChem

a division of Liberty Analytical Corporation 501 Madison Avenue Cary, N.C. 27513

Tel: 919/379-4100 Fax: 919/379-4050

SDG NARRATIVE

SDG S2812 PROTOCOL: SW-846

SAMPLE IDENTIFICATIONS: ER-SS-120402, ER-SS0121002

The two water samples listed above were scheduled for the requested analysis of the Pesticide/PCB fraction. SW-846, 3rd Edition, Update 3, Method 8081A and 8082 were used to analyze the samples, with the exceptions and/or additions requested by the client. All pertinent Quality Assurance Notices are included in the narrative section, and all pertinent Laboratory Notices for SDG S2812 are included in the sample data sections.

Analysis holding time requirements were met for the samples. There were no target compounds identified above the reporting limit in the samples. Manual quantitations were performed on one or more of the process files associated with this SDG. The reasons have been coded with explanations provided in the notice included in the narrative section of the SDG.

Overall QC criteria were met for all initial and continuing calibration standards associated to this SDG. The associated method blanks and Laboratory Control Samples (LCS) met all quality control criteria with the exception of 4,4'-DDT in PLCSCK, which had a recovery above criteria. All of the surrogates met recovery and retention time criteria in the analyses of these samples.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Kerry S. Hinshaw

Gas Chromatography Manager

December 21, 2002

Client: MA/Colm Pinne				vison of I	Liberty Anal	ytical		Pa	geof_	1
Project: SO DRS		Tion a Date.	1.7.0.3	TUCEI					B"	+
Quote: 0-2812		Canalan. 1			FESIKFA	1263				
Login No. 728/2		Airbill No. 1 17 230	2 230 D	98 0140	10 000 1		Lab In	structions		
Subcontract? Y / NO	· · · · · · · · · · · · · · · · · · ·	1 £ 230	2098 0	1 4118 0	S S C	TCLY				ì
TAT Verbal Report /4		17 230	098 0	4 A2	613	TAL				
					0012					<u> </u>
4										
Cooler Rec'd By: H A - Roller										
Cooler Rec'd By: H A Cooler Re	/-									
emperature: 2.6 3.3, 3.7°C	-		VOA	SUNC	10 0/000	Para	meters			
yanide Samples checked for culfide &	blorine? V / AIA		Von	SVOC	Pest/PCB	metals	135	TDS	T	
The chipies chicken for chippens	Y /(NA)		1	ſ	, '	1	' -	1100		
eceived in Good Condition?	N (IVA)			ł		i	ŀ	1	1	
f no, explain:	11		1	1	1			1	1	
		1	1	1				1	1	
			1	1	1 .			1	j	
CompuChem Client ID	Q Matrix Date				1		,	ı	1	
ID	Q Matrix Date C 2007	,	No. & p Type H	No. &	p No. & D	No. & p	No. C	 		
28/2-1 GW-MUD				Туре	P No. & P H Type H	Type H	No. & p Type H	No. & p Type H	No. & p N	o. &
1 2 C42- MUD 2	WA 1/7	- 11:20	3-40m	2-AL	2-AL	7 07 20			No. & p N Type H T	Гуре
		13:20		110	10 AC	1-149	1-86	1-81		
3 GN. MW02-D						_1 111	.			
1 4 K-W-MWD X		13:30			I + I	7-11		┠┈┈╂┈┈┼┈╏	<u> </u>	1
V & TRIP Blank	┝══┼═╂┈	10 20			1		-1,-1-			
Diank					1 × 	VV	V			
							-			
					 					
		: 1								
		$\mathbf{I}: \mathbf{I}$			 			[]		
	/	1		A-	1/2/2					
					1/()/					
		:	+	1/8						
		:	1							
	7	1: 14	7	1		1	T			
		10/1/1		7						
		1//		/						ł
		1	17							
	1	 								
	1	 								
										
	/	1					1 1			
		 -					 - -			
		:								
ontainer Type Abbreviations: 40mL(40mL vial)		 								
			1 1	1 1	1 1					

		·	CO	MPUCH COMM	EM a D ERCIA)ivis L R	on of Li ECEIV	iber IN(ty Ana G LOG	lyti	cal				Pa	ge_		of_	<u></u>	
Project: 8- Quote: 2- Login No. U Subcontract?	28/2 Y 100			d Date: - rier: U 2 ill No. 2 ; 230	8-03			PP	S/RFA		263 TAC	<u></u>	Lab l	nstru	ctions			128		
TAT Verbal	Report 19			1					<u> </u>		P	aram	eters							_
Cooler Rec'd By Sample Login B Temperature: Q Cyanide Sample Phenol Samples Received in Gool If no, explain:	es checked for sulfide & cl checked for chloripe?		/(NA)	e6 a 0	Dissol TAL Met	u es l.														
CompuChem	Client ID	Q Matrix	Date	Military Time	No. & Type	p H	No. & Type	p H	No. & Type	p H	No. & Type	p H	No. & Type	p H	No. & Type	p H	No. & Type	р Н	No. & Type	1
1D 42812-1	GW-MWD1	WA	1/7	11:20	FPL	42						-				-				+
	CW-MUDZ	1-1-		13:20				-												1
7 4	CM-WMD3	1 1/	1/	10:20			<u> </u>									+-		\vdash		+
	GW 180			1	-	-		-				┼┤		+				-		+
		-		· ·	 															\downarrow
			1	:			18	\bigvee	0			1		+		\dashv		+		+
			/	:	 	1	1 0	4		-		+-		-		-	 	+		+
				SM	2	4	1	+-	 	+		+-		1						I
			- 1 - 1 - 1	1/1-4		-1/-												-		1
			4	:				1	ļ	-	ļ						 		<u> </u>	+
			/	:			ļ	+	 		ļ	+		-	 	+-	ļ	+	 	+
			/	:	ļ		 	+-	 			+-	 	-		+-		-	ļ	+
				+			 	+-	 		1	+		+-						\int
	-			 	1	-													<u> </u>	4
				:						1.						\perp	 			+
-				:		_ [1		1	يل			<u> 1</u>	_L_	1		<u> </u>	rl'	\$/01:dce	<u>.</u> !
Cor. Ty	ype Abbreviations: 40ml.(40ml.	vial) AL(Amt	er Liter) PL(1	Plastic Liter)	500P(500	n .	ic) 250	P(250	mL Plastic	;} 0	IHEK							•••		

	COMPUCHEM a division of Liberty Analytical Corp
--	---

	Ī	(7	.	ΔΠ	ΡT	T (٦,	IL	זעניי					СН	AIN-	OF-C	UST	ODY	RE	EC	OR	D								No	060984
												Project	Name :					Clien	t Addre	255	: MA	<u>ት</u> ረር		1	Pi	221	<u> </u>	Р	oint	_		ntact ;
										Corp.			<i>\$</i> c) LX	<u> 2</u>			701	Ton		Ce			<u>}-</u> -		46		1		in		PACE O
			Ū									Carrier			 				HPORT		NE	4 5,		A				17				No.:757 873- 8790
				1-	800	-83	3-5	097	•			Airbili I						2	3606				_		•			٦s,	nm:	oline	1 6	omplete? Y or (See Note 1)
B0	Y #		_	C		10/-	400			T-1- 01	_		er Name	: her	<u> 1</u>	. Per		Samp	ler Sign		е:	Z	灭	1/2	フ			P	oie	ct-s	Dec	cific (PS) or Batch (B) QC ?
~	^ "	•								Trip Bi	ank		BOX #2	A. HCI		F. Ice (;	BOX #	3		Mare	-		B	OX #	4	н.	Hig	h	<u> </u>	Box # C. CLP 3/90 T. TCLP
							rė.			Waste			l	B. HNO)3 + lce)H + lca	G. Oth					U. L	Joint	ered						_	dium	1	S. SW-846
						•				Other							!SO4 + lo :+NaOH +	-	1									L	Low			W. CWA 600-series
			5.	Soli	/ Se	dim	ent /	Sku					ł		eserved	I. ZNAC	HNBOH 4	(ICE	i													O. Other
_	_				_					7	=		Box #1						<u> </u>													
l										<u>~</u>			BOX #1	Box #2		Box #4	Box #6	•		Π		П		Т	T	T	Т	13	Т	T	T	
										700				i	Filtered / Unfiltered		İ			1		87		١,		1		METAL		ļ		
					-					ام ا			ĺ		를	Conc	}	8	8			٩	ı	Antala / Mercury				8	ĺ			
	(9	cha	ara	cte	rs r	na	kim	um)	💆			1	prvative	🗧	ğ	_	. ₽ . 8	E E	1	H	•	وا	. 3		ŏ	E	😤	1	l		Remarks / Comments
l										Date: Yes		[]	i i	1	5	Expected	Method	No. of Bottler	Use for Lab Q (MS or DUP)	•	S	Pesticide			San S	roc/Tox	15	CATIOSSIA	9	~		(see Notes 2 & 3)
4	W	_	M	W	10	e	1	Τ	Т	11	,	10.20		ARE	F/V				38	Š Š		_		1	3	ě	08G / TPH	Ĕ	73.5	18%	L	
-		_	┞—		+	1:	十	╁	╁	1,			2	A,B,F	<u> </u>	L	5	1/		3	2	4	4	1	\downarrow	L	L	<u></u>	Ľ	1	L	
	-	2. Ground Water 3. Leachate 4. Rinsate 5. Soll / Sediment / Stud Sample ID characters maximum) - M W 0 B - M W 0 I - M W 0 Z - M W W 0 Z - M W W W W Z - M W W W W Z - M W W W W W W W W W W W W W W W W W W							╀	1.	;	11:20		HOPA	M 4	<u> </u>	5	3		3		4	\perp	1	L	L	L	L				
4		_	501 Madison Avent Cary, NC 27513 1-800-833-5097 1. Surface Water 2. Ground Water 3. Leachate 4. Rinsate 5. Soll / Sediment / Sluc Sample ID Characters maximum) - M W 0 B - M W 0 I - M W 0 Z - M W W 0 Z - M W W W W W W W W W W W W W W W W W W							1'/		13: 20	2	MAR A	Wu	ㄴ	3	3		3		\perp	\perp	L	L					L.		
7		_	M W 0 8 M W 0 1 M W 0 2 D						+	1,	-	13:30	2		# u	L	5	3		3				_								
-	_	_	_	_	-	1	1	^	K	11	4	:		٨	u			3		3												
-				-	_	$oxed{\bot}$	┼-	ļ	-	/	4	:_				<u> </u>																
\vdash			_	<u> </u>	L	\perp	↓	_	<u> </u>	1	_	_:_				<u> </u>									Γ							
Н	_	_		L	_	L	<u> </u>	_	<u> </u>	/	_	-:								,		Ī										
Ш	_			<u> </u>	L	L	_	L		1	\downarrow											T			-					7	1	
				L		L		L	L	1		_ : _]									\top	T	T				7	7	7	7	\dashv	
Cile	nts	Spe	cial	lina	tru	ctio	ne;																	<u> </u>	ــــ							
Lab	: Re	cei	/ed	in (300	d Co	ondi	tion	7 ()r N		Describe	Probler	ns, if any	γ:		·												_			Temperature 3 - + °C
#1 F	Relin	quis	hed	Ву:	(S)			_	1	1/2	1		Date: 1)	7/03	#2 Relinc	uished B	ly: (Sig)					ate:			#3	Relin	auls.	hed	Bv: 4	'Sic1	 	Date:
						4	44	02	. M	10,00	M)i	7	Time: /		Company	Name:					7	lma:				npan			-1.			Date:
	1-800-833-5097 X#1 1. Surface Water 2. Ground Water 3. Leachate 4. Rinsate 5. Soll / Sediment / Sludy Sample ID (9 characters maximum) W - M W 0 I W - M W 0 I W - M W 0 Z W - M W 0					}	<u>در</u>	''			#2 Recei	ved By: (Sig)					ate:				Rece			Slo			Date:				
Con	раг	y N	ame	_(۵	2	2		Ŋ	m	_	U	Time: 9	:30	Company	/ Name:					Т	irne:	_			npan						Date:

Company Name:

Time:

Note (1): If "N" lab will hold samples to await remainder of project-maximizing batch size and minimizing QC ratio; if "Y" lab will begin processing batches now. Note (2): Samples stored 60 days after date report mailed at no extra charge. Note (3): All lab copies of data destroyed after three years.



	E		٧_	_	-1		-1	٦,									CHA	AIN-O	F-CL	JSTC	DDY F	RE	CO	RI	O							N	0.	067061
	_		C												Name					Client	Addres	SS :	MAI	cul	~ P	70	ie	Inc		Pol	nt-c	f-Co	onta	ed: TONY PASE
	=	a di	visk	on c	of L	iber	ty A	nal	ytica	ı C	orp.		{	90	DRS	,				701	Town	, (ent	<u></u>	Or.	4	46	00	ヿ					To I MB
			50						nue)			Ca	rrier	:						PURT				UA				T	Tele	ech	one	No.	:757 873-8704
													Alı	rbill N	lo. :					23				-	·	_								nplete? Y of(N) (see Note 1)
				1~	900	FO.) .	JUS	•				Sa	mple	r Name	:Gerly	~ T.	Perlas	5		er Signa	rture	1:	7	7	TZ	1	_						ic (PS) or Batch (B) QC ?
KO	#1		1. 5	Surf	ace	W	der		_	3. T	nto E	Blank				A. HCI		F. Ice O			BOX #3		F. Fil	lterec	-		Box	#4		Н. Н	_			Box #6 C. CLP 3/90 T. TCLP
			2. 0	Gro	und	W	ter		7	7. O	H					B. HNO	3 + ice	G. Other	r		1		U. U	nfilte	red					M. N	-	um	Ţ	S. SW-846
			3. L	.886	chal	e				8. W	Vast				ļ	C. NaO	H + Ice	H, NaHS	SO4 + Ice)	}					Ī				L Lo	W		- 1	W. CWA 600-series
			4. F	Rine	sate				\$	9. O	ther					D. H2S	04 + lce	I. ZnAc+	NaOH +	ice	Ì													O. Other
			5. 5	Soll	/ 8	dîn	neni	/ S	udg	0 -					<u> </u>	E. Unpr	eserved				<u> </u>													
	(9	cha			-			nur	n)			Date: Year.		Time	Box #1	Box #2	Filtered / Unfiltered Box #3	Expected Conc.	Method	No. of Bottles	Use for Lab QC (MS or DUP)	VOA	svoc	Pesticide	Harbicide	Metals / Mercury	Cyanide	TOC / TOX		1:55. METALS	755	Tos		Remarks / Comments (see Notes 2 & 3)
4	×	1	M	h	1	,					1	17	11	:20	2	B,F	FIY		3	8				2		1				ī	ī	ī	П	
-	V	_	an	_	_	,	2	7	1	┪	1	, 7	+-	3.20	†	8,F	F/4		3	4				+	1	1	\exists	7	7	7	╗	7	+	
긕	-	_	\vdash	+	+	+	-}	\dashv	┥	┥		-	۲			131.		 		·	 	H	-	+	+	╀┤	\dashv	-	+	+	-	' 	\dashv	
			_	L	╀	4	4	4	4	_			Ļ.	<u>:</u>	 	ļ		ļ				\sqcup	_	4			_	\dashv	4	4	4	4	4	·····
- }			l	_								/	_	:				<u> </u>			<u> </u>							ı	}		-	- 1	1	
			Γ		Т	Т	T		٦															Ţ		П	٦	ヿ゙			\neg	T	T	
-			\vdash	十	十	╅	+	┪	十			<u>′</u>	T		<u> </u>	+		 			<u> </u>	Н	+	+			╗	┪	╅	+	┰		+	
_			<u> </u>	1	1	4	4	4				<u>/</u>		<u>:</u>	 								4	4		Ш	_	_	4	_	4	\dashv	4	
			}			١						1		:			ļ				}			-			ı	- 1		1		- 1		
_		_	T		十	1	1	1	寸			,	Τ			T						П	\top	十		\Box	\dashv	_	+	十	7	十	7	
_		<u> </u>	1	╀	+	4	+	-	{			<u>'</u>	╀	<u>:</u>	 	 	-	 			 	├-┤	\dashv	-		$\vdash \vdash$	-	-	4	4	-		+	
			ĺ			_	[1		:	<u> </u>					<u> </u>								_	_		_ [
_			Г	Τ	T		T					,	Π											T			П	\neg	T		T	\top	7	
	<u> </u>	<u> </u>	ا ـ		ㅗㅗ		L							•	1	.l	1		L	L	l	لـــل							_L					Temperature 3,3 °C
_			_						4	٦,	5.	<u> </u>																						Temperature →, → °C
								ndit		Z	<u>,01</u>	N ///	, •	escri		ems, If ar 1/7/63	Ť														_			
		2. Ground Water 7. Oli 3. Leachate 8. Waste 4. Rinsate 9. Other_ 5. Soli / Sediment / Sludge - Sample ID Characters maximum) - M W 0 1 1 / / - In W 0 2 1 / / - In W 0 2 1 / / special Instructions: Received in Good Condition? Yor Name: Marcozan p celved By: (Sig) (S			-						guished E	sy: (Sig)					Date:							Ву: ((Slg)		Date:							
	_	Sample ID Characters maximum) V - M W 0 1 1 1 V - M W 0 2 1 1 V - M W 0 2 1 1 V - M W 0 2 1 1 V - M W 0 2 1 1 V - M W 0 3 2 1 1 V - M W 0 3 2 1 1 V - M W 0 3 2 1 1 V - M W 0 3 2 1 1 V - M W 0 3 2 1 1 V - M W 0 3 2 1 1 V - M W 0 3 3 2 1 V - M W 0 3 3 2 1 V				12×	116		Time:			y Name:	*					lime:		一		pan						Time:						
#1	Rec	eive	d B	y : (Sig)	Δl	٥C	ملِل	4	٧.	ظ	لايم	4		Date:	1-00		ived By: (Sig)					Date:				tece			Sig			Date:
Ca	mpa	pany Name: MAZCOZM eceived By: (Sig) MAZCOZM pany Name: 600 ACCO							Time:	<u> 9.30</u>	Compar	y Name:						Time:	<u>. </u>		Con	npan	/ Na	me:				Time:						

Note (1): If "N" lab will hold samples to await remainder of project-maximizing batch size and minimizing QC ratio; if "Y" lab will begin processing batches now.

Not (2): Samples stored 60 days after date report mailed at no extra charge.

Note (3): All lab copies of data destroyed after three years.

COMPUCHEM
a division of Liberty Analytical Corp.

CHAIN-OF-CUSTODY RECORD

No. 060983

						r						Proi	ect N	lame :						Adda										Τ-			146	3.000903
		a d				iberi					orp.				DRS				701	Addre	55 :	M	41	<u>_(0</u>	<u> [_/</u>						oini	t-of-	-Co	ntect: TUNY MCE
			50			disc				!		Carr			<i>D₁</i> C -					TUL	10						14	ورا	bΩ	4-				· · · · · · · · · · · · · · · · · · ·
						, NC)-83						Airbi). :						3606		N	<u> ۲</u>	-		A				17	eleç	phor	ne h	Vo. 757 873-8765
				•	•		, O-U	,,,,,	•			_			·For	yn T.	Perl.	46			- 4			7	<u> </u>	1	1			ĮS:	a m	plin	9 0	complete? Y or (see Note 1)
во	X #1		1. 5	Sur	face	Wa	ter		8	. Tr	ip Blan				A. HCI		F. Ice O		Ognibi	BOX #			- Kar	4	7	<u> </u>	7			P	roje	<u>ct-s</u>	рес	elfic (PS) or Batch (B) QC ?
			2. (Зro	und	W۳	ter		7	'. OI	1			_	B. HNO		G. Othe	•		BOA IN	•		r wer Unfil				Во	x #4	,		Hig			Box #6 C. CLP 3/90 T. TCLP
			3. L	.00	chel	e			8	. W	aste					H + Ice		SO4 + lo	-	1 .		U.	OMH	cereo	•]					diun	n	S. SW-846
1					eate). OI	ther		.			04 + Ice														L.	Low	'		W. CWA 900-series
L.,			5. 5	Soil	/ Se	dim	ent	/ Sk	udge	_			\perp		E. Unpr																			O. Other
Γ		_								Т		Т	T	Box #1	Box #2	Box #3	Box #4	Box #6			_	_	Ţ,	_	_	_	<u> </u>	_		_			_	
l										1	2003		j			72	1		ļ	!	İ		l .				i		Ì		1	1		
				• m		• 1D				-	2	1] ≨	ا نو	•		ပ္က	ı]		1		Ę				12		1]
	/ 0	che			•	ma:			- \	- 1	ال			- 1	\$	5	ଓ୍ର		≨	1 4 5		}				ğ		×		METALS	1			Remarks / Comments
1	(5	G I C	ii a	ot c	131	ı.a.	AIIE	run	"		∑ ∑			×	ervative	8	5	8	<u>&</u>	글린		١,,	유		흈	2	2	5	1	1	r			(see Notes 2 & 3)
											Date: Year	E		Vatrtx	8	Filtered / Unfiltered	Espected Conc	Wethod	No. of Bottles	Use for Lab QC (MS or DUP)	Š	SVOC	Pesticide	Ş	Herbicide	Motale / Ma	Cyanida	TOC / TOX	9	25.4	75.5	105		(**************************************
4	W	-	M	W	10	2	<u>.</u>	- I	ग		1,7	13.3	0	2	B, F	F/u	<u> </u>	3	8	<u>⊃€</u>	>	2	_	ě.	Ĭ	3	6	Ĕ	ð	-	╌	1	╀	/
4	L. /		м	<u>.</u>	0	12	1	Ť	1	-+-	1,7		+	2	F	u					\vdash	Н	-		_	-	4		_	Ľ	Ľ	Ľ	L	
4	~			-	+	+	7	+	┿	╁	1//	13:2	-		-	-		5	4		Ш	2	2				_	_		L	L		L	
┝	-			\vdash	╁	╀	╁	+	╁	+		╁╌	+												\Box		\bot						Ĺ	
\vdash			-	\vdash	╀	┿	╁	╀	+	+		 :	+	- +										\dashv	_						L	L		
\vdash			-	 -	╀	╁	+	╀	╁	+		 :	+											\downarrow	\bot									
\vdash		\dashv		_	+-	+	╁-	+	 -	+		 :	-							**														
\vdash		_		_	-	╀-	-	4	+	+	1	 	\bot												$oldsymbol{\perp}$									
\vdash	4	_	_		-	╄	1	1	ļ	1	1	 :	\bot																					
		_	-		L	╀	$oldsymbol{\downarrow}$	-	1	\downarrow		<u>:</u>	\downarrow															T						
Ц					L	<u>.</u>			_	L	1				l				:							T		1	7					
Clie	nts	Spe	clal	In	tru	ctlo	ns:			_																								Tomoretuna
Lab	: Re	cen	red	in (<u>Goo</u>	d C	ond	itio	n? (\widehat{Y}	r N	Desc	ribe i		s, If any															_			_	Temperature 0 °C
	(elin				: (Si		-6		_	7		<u></u>		ate: "/		#2 Reling		y: (Sig)					Date:	:			3 R	elinq	ulal	ved .	By:	(Sig)	Date;
Con	npan	y Ni	me	:		-17	AL			10				me: //		Company						1	Fime	: :		- 1		pany						Time:
	Rece				,		W		~	<u> </u>		بىلىر	_			#2 Receiv	ed By. (S	ig)					Date:	:		\neg		eceh			(Sip)		Date:
Con	npan	y Na	ame.	: (٥_	W	ρu	4	N	$\boldsymbol{\gamma}$	L		TI	me:	اند	Company	Name:						Time	:				any						Time

Note (1): If "N" lab will hold samples to await remainder of project-maximizing batch size and minimizing QC ratio; if "Y" lab will begin processing batches now. Note (2): Samples stored 60 days after date report mailed at no extra charge. Note (3): All lab copies of data destroyed after three years.

		IEM & DIVISON 61 IERCIAL RECE			Page	(of	[— / —
Client: Malcolm Pigie Inc.	Rec'd Date: \-	9-03	PPS/RFA	1234			
Project: 86 DRJ	Courier: 4100			Lah	Instructions		4
Quote: 0-2812	Airbill No. [군	330 OCK 32 8 32 1002 0	1901 <u>9036</u>	TCLY V	oc asvoc	<u>, </u>	<u>~</u>
Login No. 72812	15 930 0	98 32 1002 0	43 5	TALMEN	11	•	
Subcontract? Y / CAP	12 030 0	98 22 1002 0	402 4				
TAT Verbal Report 14	12 230 00	98 02/00/90	7 2-				
			· L				
Cooler Rec'd By: H. H. halle		[Parameters			
Sample Login By: 21 Odenovale		1	<c< td=""><td></td><td>Pollera</td><td></td><td>7</td></c<>		Pollera		7
Temperature: 2.1, 2.4, 3, 2.3 3 PC		VOC TAL	, TSS	JUS SVX	PEHIRE		1
Cyanide Samples checked for sulfide & chlorine? Y / (NA)	VOC TAL Musical	(5)				
Phenol Samples checked for chlorine? Y / NA		0000					
Received in Good Condition? (Y) / N		[1
If no, explain:		1	l l	1			
			İ		1		
CompuChem Client ID Q Matrix I	Date Military	No. & p No. &	p No. &	p No.& p No.&	p No.& p	No. & D	No. &
ID Compachem Chem ID C Wad IX	Date Military 53 Time	No. & p No. & Type H Type	p No. & H Type	p No. & p No. & H Type	H Type H	No. & p Type H	
72812-6 GW-MWD WA 1	/08 10:00	3-40ml 1-PL	-122-5008	I-PL a-AL	ZAL		1
1 7 GW-MWI)		940M 3-PL	11-02	1-77 6-AL	6-AC		
800000	11:10	340m 1-PL			1 1977		1
8 GW-MW)7:			- V	Ja-AC	- 12-AL		
9 ER-SS-010803	14:10		- - 	1 2-AL	12-AU		
V 10 Trip Blank	1500	1-40ml -					
	/ 						
	/ :						
	/ :						1
	/ :						
	1 :				 		1
	/ :	R-1	33	 			
	1 :	2 1 1		 - 	 		
	1 2/1/						
	1/1/1				 		
	1						
	/ :						
	<i>'</i> :						
	<i>'</i> :						
	<i>1</i> :						
	7 :						
Contribute Type Abbreviations: 40ml.(40ml, vial) AL(Amber Liter)	PL(Plastic Liter) 5	00P(500m1 74-stic) 250	P(250mL Plastic)	OTHER		rlı	™8/01:dce

•				CO	MPUCH							tical				P	age		of.		
Client: Malco	Im firnic I	<u>γς</u> ,		Pag	COMM	-9-03		CCEL		S/RFA		L7									
Project: 801		<u> </u>			rier: (1)	500		 	FF	S/KFA	12	<u> </u>		Lab	Inch	uctions				- a	
Quote: 3	2812				ill No. (7	230	6	a4 > 7	١ ــــــــــــــــــــــــــــــــــــ	1001 6	ክ	16	11	St for		Cuons				က်	
Login No. 2	128/2				230	098	ھہ	2 100	\mathbf{L}	047 4	¥	74	и,	$\sim \alpha_{\rm c}$	<u>~</u> :		_				-
Subcontract?	28/2 (28/2 Y/(W)			7	2 230	093	- A	Z 10	₽a	019 043 4	te										-
TAT Verbal	Report 14			13		098	2) (O	ه ۱۶	707	>	_									-
						<u> </u>			1_												
Cooler Rec'd B	y: 13.3. Bally				1	<u></u>					 .	P	aran	neters							
Sample Login F		-	h		1	2 840	I					· · · · · · ·									
Temperature: 2	. J.2.4,3.2,3.7€C				1	Dis	ļ									1			- 1		
	es checked for sulfide & c	hlorir	1e2 Y 1	NA	1	TAL												İ	- 1		
Phenol Samples	checked for chlorine?	Y	NA			Meta	'														
Received in Go		N			1	1 100															
If no, explain:					1							1								l	
					ولايهم				Į										ı	!	
CompuChem	Client ID	Q	Matrix	Date	Military	No. &	p H	No. &	р Н	No. &	P	No. &	P	No. &	p H	No. &	p	No. &	P H	No. &	P
ID		c	- 4	Date 20.03	Time	Type		Туре	H	Type	Н Н	Туре	H	Туре	H	Туре	Н	Туре	H	Туре	H
	GW-MW10		WA	10,00	10.00		12	<u> </u>			-		1-1						Ш		₋
1 6	GW-NWII	-	 	11/00	1(:00	3-72	#1		\sqcup		-	·	\vdash		-		-		$\bot \bot$		
7	GW-MWD7	-	 	11/0	11:10	1. Pr	+			····	1			·					11		\perp
8	ER-55-010803	-	J,	11/10	4:10		W				-		╀╌┤				1		\sqcup		↓_
				,	:	 	+		-		⊨		Ħ		\vdash				曰		4-
		+		 '	 	 	-		\vdash		┝		╁╌┤				\vdash		┼╌┤		
				' ,	<u> </u>		+		-		-		\vdash		7		Н		$\vdash \vdash$		+-
				 	:		12		+				╂		+-		\vdash	<u> </u>	╁		+
		+		 		9-1			\forall		-		╁╌		┽┤		\vdash		$\vdash \vdash$		+-
		╁	l	/ 4 4	h) =		+		\vdash		+-		Н		+				-		╀
		+		9/1		1	+		\vdash		-		-		╂╾┨		-		\vdash	•	╁
		1		1	:	 	+		1-1		\vdash				+-1		\vdash		╁		+
				7	: :	ļ			\vdash		-			···	Н		\vdash		╁		+
				1	:	1			\Box	<u> </u>			†-		+						+
		1		,	:	1			1	 			╁┤		1-1				1		ī
				, ,	:					,					11		H		一十		1
		+-		1	:								$ \cdot $		††		П		一十		
				1	: :								-	 		 	\sqcap				<u> </u>
				1	:										+		口				
Container Type	Abbreviations: 40ml (40ml, vi	al) A	AL(Amber I.	iter) PL(Pla	stic Liter)	00P(500mL	. Plasi	ic) 250P(250m	L Plastic)	ОТ	HER						ri	II - 6/	/28/01:dce	

СомриСнем
a division of Liberty Analytical Corp.

501 Madison Avenue Cary, NC 27513

OHAIN-OF-	CUSTOD! RECORD	140, 22000	
Project Name :	Client Address :	Point-of-Contact :	
80 DRS	Malcolm Pirnie	Tony Pace	2
Carrier :	701 Town Center Drive, #60		

Na 068033

Car Airbill No.; Sampling complete? Y of N (see Note 1) Newport News, VA 23606 1-800-833-5097 Sampler Name: Gerlyn Perlas Sampler Signature : Project-specific (PS) or Batch (B) QC ? BOX #1 1. Surface Water 6. Trio Blank BOX #2 A. HCI + Ice F. Ice Only BOX #3 F. Filtered Box #4 H. High Box #6 C. CLP 3/90 T. TCLP 2. Ground Water 7. OF B. HNO3 + loe G. Other U. Unfiltered M. Medium S. SW-846 3. Leachate 8. Waste C. NaOH + Ice H. NaHSO4 + Ice L. Low W. CWA 600-series 4. Rinsate 9. Other D. H2SO4 + ice 1, ZnAc+NaOH + ice O. Other 5. Soli / Sediment / Sludge E. Unpreserved Box #1 Box #2 Box #3 Box #4 Box #5 2403 Rered / Unfiltered Use for Lab QC (MS or DUP) **Expected Conc** Sample ID Remarks / Comments (9 characters maximum) (see Notes 2 & 3) 1 MS/MS D 61,05 11:10 8 2 Clients Special Instructions: Temperature Lab: Received In Good Condition? Yor N Describe Problems, If any: #1 Relinquished By: (Sig) Date: #2 Relinquished By: (Sig) Date: #3 Relinquished By: (Sig) Date: MALLULM Wint Time: 1600 Company Name: Company Name: Time: Company Name: Time: Date: 1 #1 Received By: (Sig) I War #2 Received By: (Sig) Date: #3 Received By: (Sig) Date: Company Name: Time: Company Name: Time: Company Name: Time:

CHAIN OF CUSTORY BECORD

Note (1): If "N" lab will hold samples to await remainder of project-maximizing batch size and minimizing QC ratio; if "Y" lab will begin processing batches now. Note (3): All lab copies of data destroyed after three years. No' ?): Samples stored 60 days after date report mailed at no extra charge.

Test/Amer	6 RATES		oete ille, 1	r Cn	lahton	F				6-017 8-34 0						To a	now a	s in using obeing o	eriducti	ed for n	alytical i agulato	methoda ry purpo), 2006?	37	
Client Name	MALCOLI	I PIKEIS	<u> </u>						C	liont	# <u> </u>	1967	<u></u>	·				•						-	
	- 44822		DIMO	100	172	7 C	2	<u>tu</u>	علما	کـد	4	پهرو	<u>, D,</u>	460	De roje	ct Nam	6 ;	_ &)	DI	57				
City/State/Zip Code	HEVPOR	I NEWS		47		23	3606	4206	<u> </u>							Project i			85						_
Project Manager			To	<u> ۲</u>	1	A	CE	<u>; </u>						{	Site/Lo	cation (C	.					State	E 4/	A	
Telephone Number	757873	4434	87	3 -	8700		_ F	acc_	8.	.1757	1873	8723			R	epod-Fr	-	SAM	PLIA	<u> </u>	Car		ETE		3/
Sampler Name: (Print Name)	<u>Ger</u>	<u>-bpc</u>	R	بام	28 (67	-6									voice T		PRI	Te	7 -	SPA	cifi	<u> </u>	SC	TOS
Sampler Signature		<i>J</i>						,						_	_	Quote:				<u> </u>	.DO		<u>~</u> (y <u>u</u>	
					Matrix	Pre	300rv8	tion 8	. # of	Cont	alne	7					vze Fo	·					7		
TAT Standard					1 3 2	Γ			T	Т	T		\mathcal{T}^{-}	T	7	7	13		T^{-}	7	7	7	QC De	livera bled	តា
Rush (surcharges may anoly)		1	욯		2 S S		}			1		1.		/ /	/	W I	13	1 1	! 1	Ι,	/	/ /		one	
Date Needed:	2003		Compos		Spec.				1		ŀ	1/	<i>'</i>	!	20/28	3 /	dis solved	/ /						rvel 2 etch QC)	.]
Fax Results: Y N	Sampled	Time Sampled	Grath, C = Co	Page	udge DW - sroundsease						(Specify)		ט על	V I	1 2	tenis total	Z/					/		rvel 3 rvel 4	
SAMPLE ID	8		9=9	F BEF	St 81	ç ₹	ξ	Į.	0 2 1	ě	Other	1	ٔ اد	1/4	\$/ E	*							REMAR	ove	
GW-MWD	01/08	ومدى	6	L	6W		3			T	Ι	3,	1				1		1		1-	0-G		Hereul	┥
84-WN11		11:00	6	_	u	L	3					3,	7					1	<u> </u>	<u> </u>	 	2710	19 11	140 000	4
GW-MWITMSMSD	n	1110	<u> </u>	_	"		6					6.	₹			1					 				┥
CM-WMDJ	11	1440	16	_	W	Ш	3		\perp	\perp		3~	1	\overline{A}							 	12			1
ER-55-010803	<u>۳</u>	ISiU	G		(2)	2	3	\perp		\perp		21	<u>1 ľ</u>	2	ľ	111	1						-iv-	Bunk	Them
			Ļ	<u> </u>		Ц	Ц	\perp		\perp	_		Γ,									2:-		سرى	1
tr. p 5 lank -1-			Щ			Ш	\dashv	┵	4_	\perp	L	<u> </u>	1	<u> </u>								4	DI	when	1.
				Щ				_ _	\bot	\downarrow	_			1								1-4	7.0		1
								4	\bot	$oldsymbol{\perp}$	L											for		Bland	ż.
Special Instructions:	L <u>.,</u>				L		\perp	上				<u> </u>										Co	J1. 7	- 68	3
		i alaan						Δι										Market S	RATOI Inti Lab Rec Le	Temp:	1.7	, 3 -14	<u> </u>	# (Z	
Relinquished By: TIMP JUNG		어(0원 Date:	3	Time:	820	Rece	elved	By:	Ŋψ	ш	()	Bas	ls	Date:	973	Time:9	<u>'</u> 3V	Custod	y Souls	ų Y	N	27 234 8	₽/A		
Relinquished By:		Date:		Time	:	Rece	bevie	Ву:					0	Date:	.	Time:		Bottlee	Suppi)	ed by	TestAm	ericat	Y N	•	

Received By:

Time:

Time:

Date:

Date:

Weethod of Shipmont:

Time:

Date:

Relinquished By:

Test America Nachwille Dhyleton Phone: 615-726-0177 Phone: 615-726-3404 To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes? ∞ Combiance Monitoring Client Name MALCOLM PIRNIE Address: 1441 RACE LENDING TOTAL FUT TOW- Cate Dr. 600 Project Name: City/State/Zip Code: NEWPORT NEWS 23606-4206 Project Manager: UNY PACE Site/Location ID: -873-8700 Telephone Number: 7578734434 Fex: 8.17578738723 Sampler Name: (Print Name) Scoly Sampler Signature: QUOTE #: PO#: Matrix Preservation & # of Containers Analyze For: TAT QC Deliverables None Rush (surcharges may apply) 2003 Level 2 (Batch QC) Level 3 Level 4 Other: SAMPLE ID REMARKS ER-55-010803 15COP 01/08 01/08/14:10 6 GW-MWG7 61142 11WOG Cu-MW 11 6_M Special Instructions: ABSELTORY COMMENTS: Relinquished By: 2 01 जिल्ल 8.00 Date: 1903 Time: 9:30 Received By Custody Seals: Y Bottles Supplied by TestAmerics: Relinguished By: Time: Received By: Date: Time: Relinguished By: Date: Time: Received By: Date: Method of Shipment: Time:

Test America
Nachville Division
Phone: 618-728-0177
Phone: 618-728-0177
Phone: 618-728-0177
Phone: 618-728-0177
Phone: 618-728-0107 To sesist us in using the proper analytical methods. is this work being conducted for regulatory purposes? 9 Compliance Monitoring Client Name HALCOLN PIRNIE Client#: 3203 Address: HASS FOCK LEADING HOTHE FOT TUWN 460 Project Name: City/State/Zip Code: NEWPORT NEWS 23606-4206 Project Manager: Project #: PACE TUNY Site/Location ID: S 873-8700 Fex 8.17578738723 Telephone Number: 7578734434 Report To: Sampler Name: (Print Name) SAMPLING COMPLETE Invoice Ta: Sempler Signature: Matrix Preservation & # of Containers Analyze For. QC Deliverables Rush (surcharges may apply) None heo3 Level 2 Date Needed: (Batch QC) F Level 3 Sampled Fex Besults: Y N SAMPLE ID **REMARKS** 61103/100 6W - MW10 GW Field F. Hereb 6W - MHI alus 11:00 6 Sw TAU Netel MU Special Instructions: CABORATORY COMMENTS: lett Lab Ferno: 18:00 1903 Time: 9:30 Citation Seeds V Relinquished By: 2 Received By: \(\) Date: Bottles Supplied by TestAmerics: Relinquished By: Date: Time: Received By: Date: Time: Relinquished By: Date: Time: Received By: Date: Time: Method of Shipment:

			,	CC	OMPUCH COMM					erty Ana		tical				P	age	<u> </u>	_ of		-
Client: W()	colm firme			Rec	'd Date: -					PS/RFA		62									<u></u>
Project: &	ODH			Cou	urier: UP	5			1					Lab	Inst	ructions		·			4
Quote: Q =	28/2			Ąir	bill No. 13	<u>, 230</u>	Ŏ	18 2a	μc	ol go	<u>_</u>	3 7	NL	y vo	1						_ ·
Login No.	7 18/2 Y / 60				bill No. 12 230	298 7	2_	1007	10	5 4		73	CL	4 VO	0	1000					_
				+3	= 230	098 2	2	1002	74	28											_
TAT Verbal	Report /t/								-											<u></u>	_
									Ь								-				
Cooler Rec'd By	V. S. J. Bales											P	aran	aeters							
Sample Login B		mes	gla.		_	3000		pesty		Total Mutals		135		TDS	•	Vac	1	1			
Temperature: 2	. 2 , 2.4 ° °C				4	13000		/ J	0	Mitals	5	, ·		'		` _		İ	i		
Cyanide Sample	es checked for sulfide & c			(NA)	_			INC	5	7 (5. 1.			ı			į		1			
Received in Goo	checked for chlorine?	Y / N	(NA)		-	į.	ļ				,	ĺ						}			
If no, explain:	od Condition? (Y)/	14			-{	İ							- 1								
ii no, expiam.						1	Ì		i				- 1			ł					
					J 																
CompuChem ID	Client ID	QC	Matrix	Date 20 03	Military Time	No. & Type	H	No. & Type	Р	No. & Type	р Н	No. & Type	P H	No. & Type	P		H	No. & Type	P H	No. & Type	P
T2812-11	GW-MWO9		WA	1/9	13:30,	ZAL	П	2-AL		1-PLA	Z	1-21		1-01		3-40m		1	\top	·	\top
1 /2	GW-MW05			1	10 00				П			1 -	Ħ	1	+		4-	·	+		+
12	C ALL \2/2	†—		 	11:00	 , 	\vdash	- , -		- [H		\vdash		╁╌		+-	 -	┼╌┨		+
12	GN-MW06 ER-SS-010903 TRIP Blank	 -	_	 		- 	-1	- \	\vdash	- V	Ы	-V-	\vdash	₩	╀		-	ļ	╀╌┨		+
17	EK->>-(10903	-	 		14:30	2-AL	Н	2-AL	Щ	1-92	Y		\sqcup		Щ	<u> </u>	↓_		\sqcup		1_
1 1	IKIY blank		_V	V	<u> </u>		Ш		Ш							1-40M					
				1		<u> </u>											-		┼╌┫	-	
				/	:												\prod		H		T
				/	:				\Box	,											†
		†		7	:		\vdash			/	$\overline{}$				triangled	-	Н		╁╌╂		+
		┼		7	 		╁╾┪		7	3// 3	쉿		\Rightarrow		+		-	- 	╁┼		╁
		-		7	 		\vdash		14	1/ 5			\vdash		┉				\sqcup		+
ļ		\vdash			17	1-//-	\sqcup	1			_				Ш	<u> </u>	Ш				ــــــــــــــــــــــــــــــــــــــ
		ļ		/	XXZ		旦	7	Ц		_				$oxed{oxed}$						
				/ (1	7					1										1
					7 : -			-			\neg						П				
				/	 						ᅥ				-						\top
 				7	:		\vdash		H		┪		\dashv		\vdash		\vdash		-		+
				 	 		H		$\vdash \vdash$		-+	 -		· ·	$\vdash \dashv$		$\vdash \vdash$		$\vdash \vdash$		+
		\vdash		,	 		\vdash		⊢∤		-		-		╌┨		$\vdash \downarrow$		$\vdash \vdash$		
<u> </u>				· · · · · ·	-	<u> </u>	_				4		1		Ц				\sqcup		Ш
		 									=		\pm		╛						$oldsymbol{L}_{-}$
					:						_ [1									
Container Type	Abbreviations: 40ml (41ml, via	d) A	L(Amber Li	ter) PL(Pla	estic Liter) 5	00P(500mL	Plasti	ic) 250PC	50m	Plastic)	OTI	IER							1 - 6/	28/01:dce	

COMPUCHEM a Divison of Liberty Analytical Page of COMMERCIAL RECEIVING LOG															
Client: Malcolm Pirnie	COM	MERCIAL	RECEIV	ING LO	G			•	•	5		U		_	
		Rec'd Date: \-(0 - 0 3			PPS/RFA /2/) Lab Instructions										
		Courier: U(S) Airbill No. 17 230 098 22 17 230 098 22 1001 17 230 098 22 1002			Lab Instructions Lab Instructions DUISING TAL model										
Login No. U28/2	AITOIII No. J	Z 250	<u>در 298</u>	1001	306 3	D	1612	cl	TAL	254	eta li		_	7	
Subcontract? Y / 42	13 23	VO10 22	1001	40 <u>5 4</u>	7								·		
TAT Verbal Report /Y	1000	VID A.	<u>~_w</u>	040	3									_	
Cooler Rec'd By: 2.5. bayour Sample Login By: Temperature: 2.2 2.4 °C Cyanide Samples checked for sulfide & chlorine? Y / (Phenol Samples checked for chlorine? Y / NA) Received in Good Condition? (Y) / N If no, explain:	NA)	Dissolver TAL Metals	d l			Parar	meters								
CompuChem Client ID Q Matrix ID C	Date Military 20 03 Time	No. & p Type H	No. & Type	p No. & H Type	p No. & H Type	р	No. &	РН	No. &	P	No. &	T p	No. &	T.	
42812-9 GW-MW09 WA			17/4	Туре	H Type	_ H	Туре	H	Туре	н	Турс	PH	Туре	P H	
		1-0112	-									† †		+-	
10 GW-NW05	10:00		<u>l</u> 1			\top				 		++			
11 GW-MWD6 12 ER-55-010903	1 11 60				1	++		 		+-+		╁╂		1-1	
12 ER-5S-010903	J 14:20	1./			 - 			4-4						1 1	
	<u> </u>	V V	 		 	\bot		$\perp \perp$						\Box	
	,					11		+						1-1	
				_[H				╀┤	
	/					++		╅		┢		-		\square	
	/ :		7	 	 	╅╼╂╸		! →Ł						Ш	
	/ :		/ -	1/2	} 	+		$\bot \bot$						1 1	
		 	-/-//									П		П	
	/ ;		1/	1 _	H	+								$\vdash \vdash$	
	/ :		7 - 1	7										\vdash	
	1 11	7		 		╆╌╂╌		- -							
	1 ////	/	/	 		1-1-								17	
	1/1/1/2		·			\perp l	1					\top		\neg	
	1/1									一				\dashv	
	:					 		+						_	
	/ :	·		1	+	├├-						丄	{]	
	/			 		Щ	i				[\neg	
				<u> </u>			7			T		十		\dashv	
	<u>'</u> :					1		-1-		+					
	/				 							┵		_	
	7-			<u> </u>		- -				丄		\perp		_	
Container Type Abbreviations: 40ml.(40ml. vial) Al.(Amber Liter)	PI (Plastic Liter) 50	OP 500-1 P				\perp		1		+-				7	
	- equipme Enery 30	or (Duomit, Plastic	1 - 250 P(250)	nt Plastic)	OTHER						rts	- 6/28	/01:dce		

Compu Ch		_	, ,				
Test America	Nachville Di 2960 Feeter (Nachville, TN	rision Creighton I 37204	Phone: 615-726-01 Fax: 615-726-34	177	is this w	us in using the proper analytical of ork being conducted for regulator compliance Monitoring	methods, 7 T
Client Name RALCOL		<u>'</u> ''	Struck (extre	Dr. #600	-	BU IXES	
City/State/Zip Code: HEWPOR		YA	23606-4206	Dr600	Project Name: Project#:	0285-917	<u> </u>
Project Manager.		iny p	PALE		Site/Location 10;	0005	SIG:
Telephone Number: 757873	1434 873		Facc 8,17	578738723	Report To:		
Sempler Name: (Print Name) <u>Ger</u>	<u> </u>	fer la	<u>ıs</u>		Invision To:	sampling complet	(F) (ND)
Sampler Signature:		<u> </u>			/Quote #:		t
Standard Rush (surcharges may apply)	9	Maser A S	Preservation & # of Cor	mainent	Anatyza /	For	/ QC Deliverables
Push (surcharges may apply) Date Needed:		W-Drinking	Acada a		はは	"	Level 2 (Betch QC) Level 3
Fax Results: Y N	me Sampleo	Filtered Studge DV		Specify (Specify)	ない。	海河	Other Spriet-greatic
SAMPLE ID	F	64 - 64 F	0 7 TO 45	\$ 8 / S	18 4 8		REMARKS
EM-W MAG 01/09	13.306	€ ~	12	3 /3	1417	7 8	a field filtered
6W-MW85 01/0	10.00	6W	2	30	IVIV	1410	
EM-WAG DILA	מניון.	62	2 3	5 3./	WIV		
ER-55-010903 01/m	1420	62		3 3			
TRIP BLANK-1-		1					
Special instructions: I trip blank inchi	_	<u> </u>			a:3°	LABORATORY COMMEN But Care Training	A NAME OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER
Refinquished by:	01 104 105	Mex Mex	Received By: Lynn	west faile	Date: / 10-0 Time: 874	Currier Seals: 7 %	
Relinquished By:	Deta: T	me:	Received By:		Date: Time:	necessary as a second by Testam	arica: N
Relinquished By:	Date: T	lme;	Received By:		Date: Time:	Method of Shipment:	

TestAmerica Neetville Division Phone: 615-726-3404 To seeled us in using the proper analytical methods, 9 4 is this work being conducted for regulatory purposes? Compliance Monitoring Client Name MALCOLN PIRNIE Client#: 3203 Address: 11272 MATE CHIEFE THINK FUT Town Centre Drive City/State/Zip Code: MEWPORT NEWS 23606-4206 Project Menager: Site/Location ID: Telephone Number: 7578734434 873-8700 Fax 8.17578738723 Resort To: Reshs Sampler Name: (Print Name) Invoice Ta: Sempler Signature: Quote #: PO#: Matrix Preservation & # of Containers Analyze For, QC Deliverables Standard None Rush (surcharges may apply) 2003 Level 2 (Betch OC) Date Needed: Level 3 Other: 5 Fax Recults: Y N project specific SAMPLE ID REMARKS 6M-MUBS DILA GW-MAN 18:00 C 6~ X 1 /04 MW &6 Special instructions: LABORATORY COMMENTS int Lab Tomps 01101081 16:00 Relinquished By Date - 1010 Time: 9.39 Received By Hyrun 7. Bailer Custody Scale: Bettles Supplied by TakkAmerica: Relinquished By: Time: Received By: Time: Date: Relinquished By: Time: Received By: Date: Time: Method of Shipment:

Test America Nestrolle Division Phone: 618728-0177
Page Foster Creighton Phone: 618728-3404
Nagativitie, TN 37204 To sesist us in using the proper analytical methods. is this work being conducted for regulatory purposes? Compliance Monitoring Client Name MALCOLM PIRKIE Client #: 3203 Address: 41944 ence 1940 THE DOLLE TO TWO Catre Drive \$600 Project Name: City/State/Zip Code: #EWPORT HEWS 23606-4206 Project Menager: CHIS PILITI Site/Location 1D: Telephone Number: 1578734434 875-8700 Fax: 8.17578738723 Report To: Rerlus Gerh Sampler Name: (Print Name) invoice To: Sempler Signature: Quote #: Matrix Preservation & # of Containers Analyza For. QC Deliverables Standard None Rush (surcharges may apply) # Grab, C = Composite 7203 Level 2 (Betch QC) Date Needed: Level 3 Other: 15 Fax Results: Y N project specific SAMPLE ID REMARKS kr-55-010903 0109 14:20/1 a field filtere 6N-MW 69 01 69 13:306 6~ 2 7 EABORATORY COMMENT Special instructions: 16:00 Deter-1012 Time: 3.34 Controls Sustant N N NO. Relinquished By: Relinquished By: Date: Time: Received By: Date: Time: Method of Shapement. Relinquished By: Data: Time: Received By: Date: Time:

COMPUCHEM a Divison of Liberty Analytical Page / of / COMMERCIAL RECEIVING LOG Rec'd Date: 1-15-03 Client: helcom Pinnie PPS/RFA /263 Project: 80 DRS Courier: U. \$5 Lab Instructions Quote: (228/2 TCLY TAL Airbill No. 12 230 09\$ ZZ100 2234 2 Login No. 72812 42812 Subcontract? Y / N TAT Verbal Report Cooler Rec'd By: Parameters Sample Login By: Temperature: Cyanide Samples checked for sulfide & chlorine? Y / ATA) Phenol Samples checked for chloring? Received in Good Condition? If no, explain: TDS CompuChem Client ID Matrix Military No. & No. & No. & No. & Date No. & No. & No. & No. & P H Туре Type Type Type Type Type 20 03 Type Type Time 128/2-16 GW-MWD3 WA 09.45 3 40ml 1,84 1.94 2.AL 1.PL 1128/2-13 BW-MW 03 1/14/09/45 PL WA

Container Type Abbreviations: 40ml.(40ml. vial) Al.(Amber Liter) Pl.(Plastic Liter) 500P(500ml. Plastic) 250P(250ml. Plastic) OTHER

rH - 6/28/01:dce

COMPUCHEM a division of Liberty Analytical Corp.
EO4 Madison Avenue

	Γ	<u>'</u> ^	M	P	U(Γ	Н	F.	M		- ·	. w	α	CHA	AIN-C	F-CI) YOC			R	D_									. 068833
	_	_			erty .	_					Project	Name E	<u> </u>	BUDI	R.S			Addre:			<u>Ю. т</u>	10	~~	- (6		_ f					tact:
		501	l M	adis	son	Av	enue	е			Carrier		.0			_	TUI NP M	TOWN	<u> </u>	PANK	7	X .	\/\ \/\	<u> </u>	U	4.					00
					VC 2						Airbill N						1000	1010	- 14	OVV	<u>, , , , , , , , , , , , , , , , , , , </u>		·OV	200	<u>, </u>						o.: (457)873-870P-1
			1-81	JU-0	333-	-50:	31						GERL	um Pe	mias		Sampl	ler Signa	atur	•						1	Deni	IPII	ng	CO	omplete?(Y) or N (see Note 1) ific (PS) or Batch (B) QC ?
OX #1	1	ı. Sı	ırfax	e V	Vate	r		6. 1	rip Bla				A, HCI		F. Ice O	inity	1	BOX #3		F, FI	tere	<u> </u>		Box	#4		1. H		-sp		Box #6 C. CLP 3/90 T. TCL
	2	2. Gi	our	od W	Vater	r		7. C	Ni ii				B. HNO	3 + Ice	G. Othe	r		1		U. U	nfilte	ben					4. M	•	m		S. SW-846
		3. Le						8. V	Vaste				C. NaO	H+lœ	H. NaH	SO4 + lo	e							ĺ		Ł	_ Lo	₩			W. CWA 600-series
		4. RI							Other_			•		04 + Ice	I. ZnAc	•NaOH +	ice														O. Other
		5. Sc	/ (ic	Sed	imen	rt / 8	Sludy)e				<u> </u>	E. Unpr	eserved				J						L							<u> </u>
									2003			Box #1	Box #2		Box #4	Box #5) oc			188		Zu.y				,	3			
(9 c		Sar ract	-			mu	m)		Date:Year.		Time	Matrix	Preservative	Filtered / Unfiltered	Expected Conc.	Method	No. of Bottles	or Lab	VOA		Pesticide/P	Herbiolde	Metals / Mercury	Cyanide	TOC / TOX	HA! /98	" Marat.	NSS FLED	1 3	Z,	Remarks / Comments (see Notes 2 & 3)
W-	\exists	M	W	Ø	3				1/1	4	09:45	2	4,8	Flu		S	11		-	_	2		5.	Ĭ		1	1		i		* sample info written or
									/		:										Ţ										bottles for VOC, TSS, T
									1												Т	\top			1	\top		7	7		(out of labels)
									1													T				1	1	1	1		1. AL (SVOC) Fraken
									1		••											T			\top	T	1	†	1		1/1907
\prod									1												T						1	1	7		
									1		:													\exists		T		7	7		
									1		:													\Box		T			1	1	
									1		:													\Box		T	T	T		1	
									1		;													1	1	T	T	1	T	7	
lients S	pe	cial	Ins	ruc	tion	s :												<u>.</u>													Temperature 3, _°C
ab: Rec	eiv	ed i	n G	000	Co	- 707					Describ	e Proble																			
1 Relino					_				100 m	_	-0			#2 Relina	guished E	By: (Sig)					ate:			#3 R	linq	uishe	ed B	y. (S ig)		Date:
ompany						_			Pic				530	Compan							lme:			Com							Time:
Recei	ved	Ву:	(Sk)		_		_	يرك					#2 Rece		Sig)			_		ate:		_	#3 R	celv	ed B	y: (S	ig)			Date:
mpany	y Na	ame:			1	30	خد	A	m C	عرا	-	Time:	0930	Compan	y Name:					1	Ime:		- 1	Com	anv	Nan	1e:				Time:

Company Name:

Time:

Note (1): If "N" lab will hold samples to await remainder of project-maximizing batch size and minimizing QC ratio; if "Y" lab will begin processing batches now. Note (3): All lab copies of data destroyed after three years. Not in): Samples stored 60 days after date report mailed at no extra charge.

Lab Name: COMPUCHEM

Contract: 8260B

VBLKOO

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: T2812

Lab File ID: WG22387-1A52T

Lab Sample ID: WG22387-1

Date Analyzed: 01/14/03

Time Analyzed: 1248

GC Column: EQUITY624 ID: 0.53 (mm)

Heated Purge: (Y/N) Y

Instrument ID: F50052

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
	========	===========		ANALIZED
01	VOOLCS	WG22387-4	WG22387-4R2A	1538
02	GW-MW01	T2812-1	T2812-1RA52	1931
03	GW-MW02	T2812-2	T2812-2RA52	2007
04	GW-MW02-D	T2812-3	T2812-3RA52	2043
05	GW-MW08	T2812-4	T2812-4RA52	2118
06 07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
24				
25				
26				
27				
28				
29				
30	······		· · · · · · · · · · · · · · · · · · ·	
F.	 1.	 l.		_

COMMENTS:	

CLIENT SAMPLE NO.

VBLKOO

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812

Matrix: (soil/water) WATER

Lab Sample ID: WG22387-1

Sample wt/vol: 5 (g/ml) ML

Lab File ID: WG22387-1A52T

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 01/14/03

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: ____(uL

CAS NO. COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

0

		1
75-71-8Dichlorodifluoromethane	5	U
74-87-3Chloromethane	5	υ
75-01-4Vinyl Chloride	5 5	ŭ
74-83-9Bromomethane	5	Ŭ
75-00-3Chloroethane	l š	Ŭ ·
75-69-4Trichlorofluoromethane		Ιŭ
75-35-41,1-Dichloroethene]	Ιŭ
75-15-0Carbon disulfide	Í	Ιŭ
76-13-11,1,2-trichloro-1,2,2-triflu	5 5 5 5	Ü
67-64-1Acetone	13	Ιŭ
75-09-2Methylene Chloride		Ιΰ
156-60-5trans-1.2-Dichloroethene	5	Ū
1634-04-4Methyl-tert-butyl ether	5 5 5 5 5	ΙŪ
75-34-31.1-Dichloroethane	5	Ü
156-59-2cis-1,2-Dichloroethene	Š	ΙŬ
78-93-32-butanone	13	Ū
67-66-3Chloroform	5	Ü
71-55-61,1,1-Trichloroethane		Ü
56-23-5Carbon Tetrachloride	5	Ŭ
71-43-2Benzene	5	บ
107-06-21,2-Dichloroethane	5	Ū
79-01-6Trichloroethene	5	Ū
78-87-51,2-Dichloropropane	5 5 5 5 5 5 5 5	บั
75-27-4Bromodichloromethane	5	Ū
10061-01-5cis-1,3-Dichloropropene	5	Ū
108-10-14-Methyl-2-pentanone	13	บั
108-88-3Toluene	0.4	, -
10061-02-6trans-1,3-Dichloropropene	5	ΙŪ
79-00-51.1.2-Trichloroethane ——	5	Ū
12/-18-4Tetrachloroethene	5	บั
591-78-62-hexanone	13	_
124-48-1Dibromochloromethane	5	ľΰ
106-93-41,2-Dibromoethane	5	ΰ
FORM T VOA		

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM		Method: 8260B	VB	TK00	
Lab Code: LIBRTY (Case No.:	SAS No.:	SDG No.: T	2812	•
Matrix: (soil/water)	WATER	Lab Samp	le ID: WG223	87-1	
Sample wt/vol:	5 (g/ml) ML	Lab File	ID: WG223	87-1A52T	
Level: (low/med)	LOW	Date Rece	eived:	· ·	
% Moisture: not dec.		Date Anal	lyzed: 01/14	/03	
GC Column: EQUITY624	ID: 0.53 (mm)	Dilution	Factor: 1.0		
Soil Extract Volume:_	(uL)	Soil Alic	quot Volume:		(uL
CAS NO.	COMPOUND	CONCENTRATION (ug/L or ug/Kg)		Q	
100-41-4 100-42-5 75-25-2 98-82-8 79-34-5 541-73-1 106-46-7 95-50-1 96-12-8 120-82-1 1330-20-7 79-20-9	BromoformIsopropyl Benze1,1,2,2-Tetrach1,3-Dichloroben1,4-Dichloroben1,2-Dichloroben1,2-Dibromo-3-C1,2,4-TrichloroXylene (total)Methyl acetate	neloroethanezene_zene_hloropropane_benzene	555555555555		

FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

	VBLKOO	-
,		

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812

Matrix: (soil/water) WATER Lab Sample ID: WG22387-1

Sample wt/vol: 5 (g/ml) ML Lab File ID: WG22387-1A52T

Contract: 8260B

Level: (low/med) LOW Date Received:

% Moisture: not dec.

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL

Number TICs found: 2

Lab Name: COMPUCHEM

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

3/20t3

CAS NUMBER	COMPOUND MAKE			
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	
1.	LABORATORY ARTIFACT	16.23		
2.	LABORATORY ARTIFACT	17.42	46.35	Ų,
3.		1/.42	13.10	0
4.		<u> </u>		l
5.		— ——— <i>-</i>	<u> </u>	[
6.				
7.		— -		
3.		— -		
9.		-		
0.				
l .				
۵.				
3.		-		
t .		-		
ō.		— -		
5.				
7.		- -		
3.				
9		- -		
).		- -		
				
		- -		
3.		 []-		
		_ -		
5		- -		
		- -		
		-		
) ,		- -		
' •		- -		
),		- -		
U				•

FORM I VOA-TIC

VBLKNT

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY Case No.:

SAS No.: SDG No.: T2812

Lab File ID: WG22361-1A52 TC4T

Lab Sample ID: WG22361-1

Date Analyzed: 01/15/03

Time Analyzed: 1029

GC Column: EQUITY624 ID: 0.53 (mm)

Heated Purge: (Y/N) Y

Instrument ID: F50052

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

		LAB	LAB	TIME
	SAMPLE NO.	SAMPLE ID	FILE ID	ANALYZED
	=======================================			
01	VNTLCS	WG22361-4	WG22361-4A52	1108
02	TRIPBLANK 1-	T2812-5	T2812-5R2A52	1209
03	TRIPBLANK 1-	T2812-10	T2812-10A52	1656
05	TRIPBLANK 1- GW-MW11	T2812-15	T2812-15A52	1731
06	GW-MW11 GW-MW11MS	T2812-7 WG22361-6	T2812-7A52	1807
07	GW-MW11MSD	WG22361-6 WG22361-7	WG22361-6A52 WG22361-7A52	1843
08	GM-MMIIMSD	WG22361-7	WG22361-7A52	1919
09				
10				
11				
12				
13				
14				
15				
16				
17 18				
19				
20				
21				
22				
23				
24				·
25				
26				
27				
28				
29				
30		_		

COMMENTS:	

5 (q/ml) ML

CLIENT SAMPLE NO.

VBLKNT

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.:

SDG No.: T2812

Matrix: (soil/water) WATER

Lab Sample ID: WG22361-1

Sample wt/vol:

Lab File ID: WG22361-1A52 TC4T

Date Received:

Level: (low/med) LOW

Date Analyzed: 01/15/03

% Moisture: not dec.

Dilution Factor: 1.0

GC Column: EQUITY624 ID: 0.53 (mm)

Soil Aliquot Volume: ____(uL

Soil Extract Volume: (uL)

CONCENTRATION UNITS:

0

U

U U U U 13 U

> 5 U

> 5 U

5 U

5 U

5 U 13 U

5 | U

5 U

5 U

(ug/L or ug/Kg) UG/L CAS NO. COMPOUND 5 | U 75-71-8-----Dichlorodifluoromethane 5 U 74-87-3------Chloromethane_ 5555555 75-01-4-----Vinyl Chloride_ U U 74-83-9-----Bromomethane

67-64-1-----Acetone

75-09-2-----Methylene Chloride 156-60-5-----trans-1,2-Dichloroethene 1634-04-4-----Methyl-tert-butyl ether

75-34-3-----1,1-Dichloroethane 156-59-2----cis-1,2-Dichloroethene

78-93-3----2-butanone 67-66-3------Chloroform

75-00-3-----Chloroethane

71-55-6----1,1,1-Trichloroethane 56-23-5-----Carbon Tetrachloride

71-43-2----Benzene 107-06-2----1,2-Dichloroethane 79-01-6-----Trichloroethene

78-87-5-----1,2-Dichloropropane 75-27-4-----Bromodichloromethane 10061-01-5----cis-1,3-Dichloropropene

108-10-1-----4-Methyl-2-pentanone__ 108-88-3-----Toluene

10061-02-6----trans-1,3-Dichloropropene

79-00-5-----1,1,2-Trichloroethane__ 127-18-4-----Tetrachloroethene

591-78-6---2-hexanone 124-48-1-----Dibromochloromethane

106-93-4----1,2-Dibromoethane

555555 U U U U U U 5 U 13 U 0.4 J U 5 U 5 l U 13 U U 5

FORM I VOA

Lab Name: COMPUCHEM

CLIENT SAMPLE NO.

VBLKNT SDG No.: T2812 WG22361-1A52_TC4T

Lab Code: LIBRTY Case No.: SAS No.: Lab Sample ID: WG22361-1 Matrix: (soil/water) WATER Lab File ID: $5 \qquad (q/ml) ML$ Sample wt/vol: Date Received: (low/med) LOW Level: Date Analyzed: 01/15/03 % Moisture: not dec. _ Dilution Factor: 1.0 GC Column: EQUITY624 ID: 0.53 (mm)

Method: 8260B

CONCENTRATION UNITS:

Soil Aliquot Volume: __(uL Soil Extract Volume: ____(uL)

(ug/L or ug/Kg) UG/L Q COMPOUND CAS NO. 0.2 J 108-90-7-----Chlorobenzene 100-41-4----Ethylbenzene 5555555559 U 100-42-5----Styrene U 75-25-2-----Bromoform U 98-82-8----Isopropyl Benzene 79-34-5-----1,1,2,2-Tetrachloroethane__ U U 541-73-1----1,3-Dichlorobenzene 106-46-7-----1,4-Dichlorobenzene 95-50-1-----1,2-Dichlorobenzene U 96-12-8-----1,2-Dibromo-3-Chloropropane 120-82-1----1,2,4-Trichlorobenzene U 5555 1330-20-7------Xylene (total) 79-20-9-------Methyl acetate U U 110-82-7------Cyclohexane U 108-87-2-----Methylcyclohexane U

FORM 1

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT	SAMPLE	NO
--------	--------	----

	VBLKNT
I	

Contract: 8260B

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: T2812

Matrix: (soil/water) WATER

Lab Sample ID: WG22361-1

Sample wt/vol:

5 (g/ml) ML

Lab File ID:

WG22361-1A52_T

Level: (low/med) LOW

Date Received: _____

Date Analyzed: 01/15/03

% Moisture: not dec.

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: ____(uI

Number TICs found: 2

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
======================================	LABORATORY ARTIFACT	16.24	42.90	J
2.	LABORATORY ARTIFACT	17.43	21.84	J
3		i		
<u> </u>				
5.				l
6				ĺ
7 .				1
8.				
9.				·
0.				
1.				
2.				l
3				
4.				
5				
6				
/ -				1
Ų.				l
9				l
U .				l
⊥ .				
2.				
3.				l
4.				l
ο.				
6.				
7.				
в.				·
9				

FORM I VOA-TIC

FORM 4 VOLATILE METHOD BLANK SUMMARY

VBLKNW

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: T2812

Lab File ID: WG22361-8A52

Lab Sample ID: WG22361-8

Date Analyzed: 01/16/03

Time Analyzed: 1122

GC Column: EQUITY624 ID: 0.53 (mm)

Heated Purge: (Y/N) Y

Instrument ID: F50052

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

		LAB	LAB	TIME
	SAMPLE NO.	SAMPLE ID	FILE ID	ANALYZED
	========		=======================================	
01	VNWLCS	WG22361-9	WG22361-9A52	1157
02	GW-MW10	T2812-6	T2812-6RA52	1232
03	GW-MW07	T2812-8	T2812-8RA52	1303
04	ER-SS-010803	T2812-9	T2812-9RA52	1334
05	GW-MW09	T2812-11	T2812-11A52	1405
06	GW-MW05	T2812-12	T2812-12A52	1436
07	GW-MW06	T2812-13	T2812-13A52	1507
80	ER-SS-010903	T2812-14	T2812-14A52	1538
09				
10				
11		;		
12 13				
14				
15	•			
16				
17				
18				
19				
20				· · · · · · · · · · · · · · · · · · ·
21				
22				
23				
24				
25				
26				
27				
28				
29				
30	l		l	

COMMENTS:			
		 	

CLIENT SAMPLE NO.

VBLKNW

Lab Name: COMPUCHEM

Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.:

SDG No.: T2812

Matrix: (soil/water) WATER

Lab Sample ID: WG22361-8

Sample wt/vol: 5 (g/ml) ML

Lab File ID: WG22361-8A52

Date Received: _____

Level: (low/med) LOW

% Moisture: not dec.

Date Analyzed: 01/16/03

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Aliquot Volume: ____(uI

Soil Extract Volume: ____(uL)

CONCENTRATION UNITS:

Q

CAS NO. COMPOUND

(ug/L or ug/Kg) UG/L

75-71-8	CAS NO.		
106-93-41,2-Dibromoethane	75-71-8 74-87-3 75-01-4 74-83-9 75-00-3 75-69-4 75-35-4 75-15-0 76-13-1 67-64-1 75-09-2 156-60-5 156-59-2 78-93-3 71-55-6 71-55-6 71-55-6 71-43-2 107-06-2 79-01-6 78-87-5 108-10-1 108-88-3 10061-02-6 79-00-5 127-18-4 591-78-6	ChloromethaneVinyl ChlorideBromomethaneChloroethaneTrichlorofluoromethane1,1-DichloroetheneCarbon disulfide1,1,2-trichloro-1,2,2-trifluAcetoneMethylene Chloridetrans-1,2-DichloroetheneMethyl-tert-butyl ether1,1-Dichloroethanecis-1,2-Dichloroethene2-butanoneChloroform1,1,1-TrichloroethaneCarbon TetrachlorideBenzene1,2-DichloroethaneTrichloroethene1,2-DichloropropaneTrichloroethaneTrichloroethaneTrichloroethaneTrichloroethaneTrichloroethaneTrichloroethaneTrichloroethaneTolueneTolueneTolueneTetrachloroethaneTetrachloroethane	55555555555555555555555555555555555555
	124-48-1	Dibromochloromethane	5 U

CLIENT SAMPLE NO.

				V	BLKNW	
Lab Na	me: COMPUCHEM		Method: 8260B	1		_
Lab Co	de: LIBRTY	Case No.:	SAS No.:	SDG No.:	T2812	
Matrix	: (soil/water)	WATER	Lab Sam	ple ID: WG22	2361-8	
Sample	wt/vol:	5 (g/ml) ML	Lab Fil	e ID: WG22	2361-8A52	
Level:	(low/med)	LOW	Date Re	ceived:	· · · · · · · · · · · · · · · · · · ·	
% Mois	sture: not dec.		Date Ar	nalyzed: 01/1	16/03	
GC Col	umn: EQUITY624	ID: 0.53 (mm)	Dilutio	on Factor: 1.	. 0	
Soil E	extract Volume:	(uL)	Soil Al	iquot Volume	e:	_(uL
	CAS NO.	COMPOUND	CONCENTRATION (ug/L or ug/F		Q	
	100-41-4 100-42-5 75-25-2 98-82-8 79-34-5 541-73-1 106-46-7 95-50-1 96-12-8 120-82-1 1330-20-7 79-20-9	ChlorobenzeneEthylbenzeneStyreneBromoformIsopropyl Benze1,1,2,2-Tetracl1,3-Dichloroben1,2-Dichloroben1,2-Dibromo-3-01,2,4-TrichloroXylene (total)Methyl acetateCyclohexane	ene hloroethane nzene nzene nzene chloropropane obenzene		5 U 5 U 5 U 5 U 5 U	

FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

VBLKNW	

Lab Name: COMPUCHEM	Contract: 8260B
Lab Code: LIBRTY Case No.:	SAS No.: SDG No.: T2812
Matrix: (soil/water) WATER	Lab Sample ID: WG22361-8
Sample wt/vol: 5 (g/ml) ML	Lab File ID: WG22361-8A52
Level: (low/med) LOW	Date Received:
% Moisture: not dec.	Date Analyzed: 01/16/03
GC Column: EQUITY624 ID: 0.53 (mm)	Dilution Factor: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Volume:(

Number TICs found: 2

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

alexter

CAS NUMBER	COMPOUND NAME		EST. CONC.	Q
	ABORATORY ARTIFACT	16.23	38.82	J
- •	ABORATORY ARTIFACT	16.23 17.42	14.74	J
	ABORATORI ARTIFACI	1 27,125	-	
3				
1 _				
ō _				
5				
7 <u> </u>				
8				
7.				\
0				
1				
2				
3				
<u>. </u>				
4				
5				
6				
7				
8				
9				
0				
1				l
4.				
J. 1		-		·
4.				·
J. I				·
0.				.
7				.
8				.
9				.
0.				.

FORM I VOA-TIC

VBLKRG Contract: 8260B

Lab Code: LIBRTY Case No.:

SAS No.: SDG No.: T2812

Lab File ID: WG22480-2B59_TC4

Lab Sample ID: WG22480-2

Date Analyzed: 01/21/03

Lab Name: COMPUCHEM

Time Analyzed: 2142

GC Column: ZB-624 ID: 0.32 (mm)

Heated Purge: (Y/N) Y

Instrument ID: 5972HP59

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

		LAB	LAB	TIME
	SAMPLE NO.	SAMPLE ID	FILE ID	ANALYZED
	==========	**=========	=======================================	=========
01	VRGLCS	WG22480-5	WG22480-5B59	2233
02	GW-MW03	T2812-16	T2812-16B59	0220
03		-2312 13	12012 10233	0220
04				
05				
06				
07				
08				
09				
10			·	
11			· · · · · · · · · · · · · · · · · · ·	
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29		· · · · · · · · · · · · · · · · · · ·		
30				
201				

COMMENTS:	

CLIENT SAMPLE NO.

VBLKRG

Method: 8260B Lab Name: COMPUCHEM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812

Matrix: (soil/water) WATER

Lab Sample ID: WG22480-2

Q

Sample wt/vol: 5 (g/ml) ML Lab File ID: WG22480-2B59_TC4

Date Received: ____

Level: (low/med) LOW

Soil Extract Volume: (uL)

Date Analyzed: 01/21/03

% Moisture: not dec. _____

GC Column: ZB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Aliquot Volume: ____(uL

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

75-71-8-----Dichlorodifluoromethane 5 U 74-87-3-----Chloromethane 5 | U 5 U U U U 5 U 5 U U 5 U U 5 U 75-01-4-----Vinyl Chloride 74-83-9-----Bromomethane 75-00-3-----Chloroethane 75-69-4----Trichlorofluoromethane 75-35-4----1,1-Dichloroethene 5 U 75-15-0-----Carbon disulfide 76-13-1----1,1,2-trichloro-1,2,2-triflu 5 | U 67-64-1-----Acetone 13 U 75-09-2-----Methylene Chloride 5 | U 156-60-5----trans-1,2-Dichloroethene U 1634-04-4-----Methyl-tert-butyl ether U 75-34-3-----1,1-Dichloroethane U 156-59-2----cis-1,2-Dichloroethene 5 | U 78-93-3----2-butanone 13 U 67-66-3-----Chloroform U 71-55-6----1,1,1-Trichloroethane 5 U 56-23-5-----Carbon Tetrachloride U 71-43-2----Benzene 5 U 107-06-2----1,2-Dichloroethane U 79-01-6-----Trichloroethene 78-87-5-----1,2-Dichloropropane U 5 U 75-27-4-----Bromodichloromethane 5 U 10061-01-5----cis-1,3-Dichloropropene 5 U 108-10-1----4-Methyl-2-pentanone 13 U 108-88-3-----Toluene 10061-02-6----trans-1,3-Dichloropropene 79-00-5-----1,1,2-Trichloroethane 0.9 J 5 U 5 | U 127-18-4-----Tetrachloroethene___ 5 | U 591-78-6----2-hexanone 13 U 124-48-1-----Dibromochloromethane
106-93-4-----1,2-Dibromoethane 5 | U 5 U

CLIENT SAMPLE NO.

			VDI KDG	1
Lab Name: COMPUCH	ΞM	Method: 8260B	VBLKRG	
Lab Code: LIBRTY	Case No.:	SAS No.: S	DG No.: T2812	
Matrix: (soil/wate	er) WATER	Lab Sample	ID: WG22480-2	
Sample wt/vol:	5 (g/ml) ML	Lab File ID	: WG22480-2B59_T	C4
Level: (low/med)	LOW	Date Receiv	ed:	
% Moisture: not de	ec	Date Analyz	ed: 01/21/03	
GC Column: ZB-624	ID: 0.32 (mm)	Dilution Fa	ctor: 1.0	
Soil Extract Volum	me:(uL)	Soil Aliquo	t Volume:	(uL
CAS NO.	COMPOUND	CONCENTRATION UNI (ug/L or ug/Kg) U		
100-41-4	ChlorobenzeneEthylbenzeneStyreneBromoformIsopropyl Benzene1,1,2,2-Tetrace1,3-Dichlorobee1,2-Dichlorobee1,2-Dibromo-3-01,2,4-TrichlorobeeXylene (total)	enehloroethanenzene	55555555555555555555555555555555555555	

FORM 1

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

VBLKRG

Lab Name: COMPUCHEM		Contract: 8260B
Lab Code: LIBRTY	Case No.:	SAS No.: SDG No.: T2812
Matrix: (soil/water)	WATER	Lab Sample ID: WG22480-2
Sample wt/vol:	5 (g/ml) ML	Lab File ID: WG22480-2B59_T
Level: (low/med)	LOW	Date Received:
% Moisture: not dec.		Date Analyzed: 01/21/03
GC Column: ZB-624	ID: 0.32 (mm)	Dilution Factor: 1.0
Soil Extract Volume:	(uL)	Soil Aliquot Volume: (uI

Number TICs found: 2

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

3/22/2

			51	0.0
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	LABORATORY ARTIFACT	13.48		
2.	LABORATORY ARTIFACT	14.86	12.04	U T
	LABORATORI ARTITACI	14.00	12.04	U
3				
5.				
6.	-			
7.				
υ.				
9.				
10.				
11 .				
12.				
1J.				
± / .		-		
10.				
19.				
20.				
21.	·			
22				
23				
24.				
25.	·			
26.	-	l		
26.				
40.				
29.			1	
30.				

FORM I VOA-TIC

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: T2812

Lab File ID: BF030107B52

BFB Injection Date: 01/07/03

Instrument ID: F50052

BFB Injection Time: 1804

GC Column: EQUITY624 ID: 0.53 (mm)

Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50 75 95 96 173 174 175 176	8.0 - 40.0% of mass 95 30.0 - 66.0% of mass 95 Base Peak, 100% relative abundance 5.0 - 9.0% of mass 95 Less than 2.0% of mass 174 50.0 - 120.0% of mass 95 4.0 - 9.0% of mass 174 93.0 - 101.0% of mass 176 5.0 - 9.0% of mass 176	16.5 45.2 100.0 6.6 0.2 (0.2)1 71.4 4.8 (6.7)1 69.9 (97.8)1 4.3 (6.2)2
	1-Value is % mass 174 2-Value is % mass	176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21	VSTD050 VSTD020 VSTD010 VSTD005 VSTD100 VSTD200	VSTD050 VSTD020 VSTD010 VSTD005 VSTD100 VSTD200	CS030107B52 CT030107B52 CU030107B52 CV030107B52 CW030107B52 CX030107B52	01/07/03 01/07/03 01/07/03 01/07/03 01/07/03 01/07/03	1821 1853 1925 1956 2027 2058
22 age 1 of 1					

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812

Lab File ID: BF030114A52 BFB Injection Date: 01/14/03

Instrument ID: F50052 BFB Injection Time: 0943

GC Column: EQUITY624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50 75 95 96 173 174 175 176	8.0 - 40.0% of mass 95 30.0 - 66.0% of mass 95 Base Peak, 100% relative abundance 5.0 - 9.0% of mass 95 Less than 2.0% of mass 174 50.0 - 120.0% of mass 95 4.0 - 9.0% of mass 174 93.0 - 101.0% of mass 174 5.0 - 9.0% of mass 176	17.7 49.3 100.0 6.8 0.0 (0.0)1 58.1 4.2 (7.3)1 55.9 (96.2)1 3.6 (6.4)2
1	1-Value is % mass 174 2-Value is % mass	' - 76

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA	LAB	LAB	DATE	TIME
	SAMPLE NO.	SAMPLE ID	FILE ID	ANALYZED	ANALYZED
	=========	==========	==========	=======	========
01	VSTD050	VSTD050	CU030114A52	01/14/03	1148
02	VBLKOO	WG22387-1	WG22387-1A52T	01/14/03	1248
03	VOOLCS	WG22387-4	WG22387-4R2A52	01/14/03	1538
04		T2812-1	T2812-1RA52	01/14/03	1931
05		T2812-2	T2812-2RA52	01/14/03	2007
06		T2812-3	T2812-3RA52	01/14/03	2043
07 08	GW-MW08	T2812-4	T2812-4RA52	01/14/03	2118
09					
10					
11					
12					
13					
14					
15			-		
16					
17					
18					
19					
20					
21 22					
page 1 of 1					
Page 1 of 1	L				

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.:

SDG No.: T2812

Lab File ID: BF030115A52

BFB Injection Date: 01/15/03

Instrument ID: F50052

BFB Injection Time: 0745

GC Column: EQUITY624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50 75 95 96 173 174 175 176	8.0 - 40.0% of mass 95 30.0 - 66.0% of mass 95 Base Peak, 100% relative abundance 5.0 - 9.0% of mass 95 Less than 2.0% of mass 174 50.0 - 120.0% of mass 95 4.0 - 9.0% of mass 174 93.0 - 101.0% of mass 174 5.0 - 9.0% of mass 176	15.1 44.8 100.0 7.0 0.1 (0.2)1 55.8 3.9 (7.1)1 53.8 (96.5)1 3.5 (6.5)2
	1-Value is % mass 174 2-Value is % mass	176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	· ——		_		
	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01 02	VSTD050 VBLKNT	VSTD050 WG22361-1	CU030115A52 WG22361-1A52 T	01/15/03 01/15/03	0938 1029
03 04 05	VNTLCS TRIPBLANK 1-	WG22361-4 T2812-5	WG22361-4A52_T T2812-5R2A52	01/15/03 01/15/03	1108 1209
06 07	TRIPBLANK 1- TRIPBLANK 1- GW-MW11	T2812-10 T2812-15 T2812-7	T2812-10A52 T2812-15A52 T2812-7A52	01/15/03 01/15/03 01/15/03	1656 1731 1807
08 09	GW-MW11MS GW-MW11MSD	WG22361-6 WG22361-7	WG22361-6A52 WG22361-7A52	01/15/03 01/15/03	1843 1919
10 11 12					
13 14					
15 16 17					
18 19					
20 21 22					
page 1 of 1					

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812

Lab File ID: BF030116A52 BFB Injection Date: 01/16/03

Instrument ID: F50052 BFB Injection Time: 0753

GC Column: EQUITY624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50 75 95 96 173 174 175 176 177	15.0 - 40.0% of mass 95 30.0 - 60.0% of mass 95 Base Peak, 100% relative abundance 5.0 - 9.0% of mass 95 Less than 2.0% of mass 174 Greater than 50.0% of mass 95 5.0 - 9.0% of mass 174 95.0 - 101.0% of mass 174 5.0 - 9.0% of mass 176	15.0 44.9 100.0 6.5 0.1 (0.1)1 52.6 3.5 (6.6)1 51.5 (98.0)1 3.1 (6.0)2
· ——	1-Value is % mass 174 2-Value is % mass	176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	I TIDA				
	EPA	LAB	LAB	DATE	TIME
	SAMPLE NO.	SAMPLE ID	FILE ID	ANALYZED	ANALYZED
	=========		*======================================	=========	=======
01	VSTD050	VSTD050	CU030116A52	01/16/03	1036
02	VBLKNW	WG22361-8	WG22361-8A52	01/16/03	1122
03	VNWLCS	WG22361-9	WG22361-9A52	01/16/03	1157
04	GW-MW10	T2812-6	T2812-6RA52	01/16/03	1232
05	GW-MW07	T2812-8	T2812-8RA52	01/16/03	1303
06	ER-SS-010803	T2812-9	T2812-9RA52	01/16/03	1334
07	GW-MW09	T2812-11	T2812-11A52	01/16/03	1405
80	GW-MW05	T2812-12	T2812~12A52	01/16/03	1436
09	GW-MW06	T2812-13	T2812-13A52	01/16/03	1507
10	ER-SS-010903	T2812-14	T2812-14A52	01/16/03	1538
11				12,20,00	1330
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
age 1 of :		l 		_ !	

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: T2812

Lab File ID: BF030109A59

BFB Injection Date: 01/09/03

Instrument ID: 5972HP59

BFB Injection Time: 1051

GC Column: ZB624 ID: 32.00 (mm)

Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50 75 95 96 173 174 175 176	15.0 - 40.0% of mass 95 30.0 - 60.0% of mass 95 Base Peak, 100% relative abundance 5.0 - 9.0% of mass 95 Less than 2.0% of mass 174 Greater than 50.0% of mass 95 5.0 - 9.0% of mass 174 95.0 - 101.0% of mass 174 5.0 - 9.0% of mass 176	18.3 40.7 100.0 6.6 0.0 (0.0)1 74.1 5.4 (7.3)1 73.4 (99.0)1 4.8 (6.6)2
	1-Value is % mass 174 2-Value is % mass	176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

01 02 03 04 05 06 07 08 09	EPA SAMPLE NO. ====================================	LAB SAMPLE ID SAMPLE ID VSTD005 VSTD010 VSTD020 VSTD050 VSTD100 VSTD200	LAB FILE ID ===================================	DATE ANALYZED ======== 01/09/03 01/09/03 01/09/03 01/09/03	TIME ANALYZED ====================================
10 11					
12 13					
14					
15 16					
17 18					
19				-	
20 21					
22 age 1 of 1					

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812

Lab File ID: BF030121B59 BFB Injection Date: 01/21/03

Instrument ID: 5972HP59 BFB Injection Time: 2059

GC Column: ZB624 ID: 32.00 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50 75 95 96 173 174 175 176	15.0 - 40.0% of mass 95 30.0 - 60.0% of mass 95 Base Peak, 100% relative abundance 5.0 - 9.0% of mass 95 Less than 2.0% of mass 174 Greater than 50.0% of mass 95 5.0 - 9.0% of mass 174 95.0 - 101.0% of mass 174 5.0 - 9.0% of mass 176	23.0 43.3 100.0 6.9 0.0 (0.0)1 72.8 5.2 (7.1)1 70.5 (96.9)1 4.7 (6.6)2
·	1-Value is % mass 174 2-Value is % mass	' 176 '

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01 02 03 04 05	VSTD050 VBLKRG VRGLCS GW-MW03	VSTD050 WG22480-2 WG22480-5 T2812-16	GS030121B59 WG22480-2B59_T WG22480-5B59_T T2812-16B59	01/21/03 01/21/03 01/21/03 01/21/03	2117 2142 2233 0220
06 07 08 09 10					
12 13 14 15				-	
16 17 18 19 20					
21 22 age 1 of 3					

FORM 7B VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812

Instrument ID: F50052 Calibration Date: 01/14/03 Time: 1148

Lab File ID: CU030114A52 Init. Calib. Date(s): 01/07/03 01/07/03

Init. Calib. Times: 1821 2058

GC Column: EQUITY624 ID: 0.53 (mm)

	T	Innes		,		,	
COMPOUND	DDD	RRF50		!	ļ	1	
COMPOUND	RRF or	or	CCAL	MIN	%D or	MAX %D or	CURV
 	AMOUNT	AMOUNT	RRF50	RRF	%DRIFT	%DRIFT	TYPE
Dight one difference at	1	=======	=======	=====		=======	====
Dichlorodifluoromethane	0.6320000	0.5331891	0.5331891	0.001	-15.63	90.00	AVRG
Chloromethane	0.2920000	0.2704722	0.2704722	0.1	-7.37	90.00	AVRG
Vinyl Chloride	0.2930000	0.3191171	0.3191171	0.001	8.91	20.00	AVRG
Bromomethane	0.3230000	0.3904324	0.3904324	0.001		90.00	
Chloroethane	10.2390000	0.1962070	0.1962070	0.001	-17.90	90.00	AVRG
Trichlorofluoromethane	276.60344	250.00000	0.8376531	0.001	10.64		
1,1-Dichloroethene	0.3060000	0.3102039	0.3102039	0.001	1.37	20.00	AVRG
Carbon disulfide	1.0170000	0.9882301	0.9882301	0.001	-2.83		
1,1,2-trichloro-1,2,2-triflu	0.9800000	0.9560993	0.9560993	0.001	-2.44	90.00	
Acetone	621.48155	625.00000	0.0401827	0.001	-0.56		
Methylene Chloride	0.3380000	0.3391091	0.3391091	0.001	0.33		
trans-1,2-Dichloroethene	0.2960000	0.3761264	0.3761264	0.001	27.07		
Methyl-tert-butyl ether	0.6140000	0.6945862	0.6945862	0.001	13.12	90.00	
1-Dichloroethane	0.5850000	0.6376797	lo.6376797	0.1	9.00	90.00	
is-1,2-Dichloroethene	0.3060000	0.3183770	0.3183770	0.001	4.04		
2-butanone	693.71368	625.00000	0.0615554	0.001	10.99	90.00	
Chloroform_	0.7600000	0.7691599	0.7691599	0.001	1.20	20.00	
1,1,1-Trichloroethane	0.6920000	0.7501563	0.7501563	0.001	8.40	90.00	
Carbon Tetrachloride	0.7020000	0.6812461	0.6812461	0 001	-2.96		
Benzene	0.8520000	0.9365830	0.9365830	0.001	9.93	90.00	
1,2-Dichloroethane	0.4070000	0.4113236	0.4113236	0.001	1.06	90.00	
Trichloroethene	0.3530000	0.3518682	0.3518682	0.001	-0.32	90.00	
1,2-Dichloropropane	0.3880000	0.4003388	0.4003388	0 001	3.18	20.00	
Bromodichloromethane	0.7600000	0.7476467	0.7476467	0.001	-1.62	90.00	
cis-1,3-Dichloropropene	0.5380000	0.5609018	0.5609018	0.001	4.26	90.00	
4-Methyl-2-pentanone	0.2170000	0.2342835	0.2342835	0.001	7.96	90.00	
Toluene	0.7200000	0.7744417	0.7744417	0.001	7.56	20.00	
trans-1,3-Dichloropropene	0.5600000	0.6083108	0.6083108	0.001	8.63	90.00	
1,1,2-Trichloroethane	0.3240000	0.3540512	0.3540512	0.001	9.28		•
retrachioroethene	0.4420000	0.4531126	0.4531126	0.001	2.51	90.00	- 1
2 -nexanone	0.1570000	0.1593560	0.1593560	100.0	1.50	90.00	
Diblomochioromethane	0.6610000	0.7180732	0.7180732	0.001	8.63	90.00	
1,2-Dibromoethane	0.4760000	0.5237993	0.5237993	0.001		90.00	
Cilloropenzene	0.9200000	1.0334050	1 0334050	0.3	10.04	90.00	
Ethylbenzene	0.4300000	0.5130982	0.5130982	0.3	12.33	90.00	
Styrene	0.8250000	0.9375343	0.9375343	0.001	19.32	20.00	
Bromoform	0.4320000	0.4361176	0.23/3343	0.001	13.64	90.00	
Isopropyl Benzene	1.5490000	1 8078765	1.8078765	0.1	0.95	90.00	
1,1,2,2-Tetrachloroethane	1.0760000	1.0945400	1 00/0/05		16.71	90.00	
1,3-Dichlorobenzene	1.4200000	1.5427414	1 54074741	0.3	1.72	90.00	
1,4-Dichlorobenzene	1.6150000	1 73825441	+-J441414 (1 73075///	0.001	8 - 60	90.00	
1 A - 4 · -	1.2700000	1.3908315	1.7382544 (0.001	7.63	90.00	
		CTC00-C	+.2300212	1.00T	9.51	90.00	AVRG
Je 1 of 2			l-		l.	/ +	271
	F	TTV MAO	VON			4	U !

FORM 7B VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812

Instrument ID: F50052 Calibration Date: 01/15/03 Time: 0938

Lab File ID: CU030115A52 Init. Calib. Date(s): 01/07/03 01/07/03

Init. Calib. Times: 1821 2058

GC Column: EQUITY624 ID: 0.53 (mm)

		RRF50					
COMPOUND	RRF or	or	CCAL	MIN	%D or	MAX %D or	CURV
	AMOUNT	AMOUNT	RRF50	RRF	%DRIFT	%DRIFT	TYPE
=======================================	=======	========	========	=====	======	=======	====
Dichlorodifluoromethane	0.6320000	0.4613153	0.4613153	0.001		1	
Chloromethane	0.2920000	0.2467899	0.2467899	0.1	-15.48	90.00	AVRO
Vinyl Chloride	0.2930000	0.3087788	0.3087788	0.001			
Bromomethane		0.3899853					
Chloroethane		0.1997914					
Trichlorofluoromethane		250.00000					
1,1-Dichloroethene		0.3017068					•
Carbon disulfide	1.0170000	0.9522326	0.9522326	0.001	-6.37		
1,1,2-trichloro-1,2,2-triflu							
Acetone		625.00000					
Methylene Chloride		0.3339575					
trans-1,2-Dichloroethene		0.3664954					•
Methyl-tert-butyl ether		0.7096332					
1,1-Dichloroethane	,	0.6011086	,		,		
cis-1,2-Dichloroethene		0.3050257					
2-butanone		625.00000	•				
Chloroform		0.7218810					
1,1,1-Trichloroethane		0.6987902					AVRO
Carbon Tetrachloride		0.6332768					AVRG
Benzene	0.8520000	0.8988346	0.8988346	0.001	5.50		
1,2-Dichloroethane	0.4070000	0.3954223	0.3954223	0.001	-2.84	90.00	AVRO
Trichloroethene		0.3429354				90.00	AVRO
1,2-Dichloropropane		0.3932781					AVRO
Bromodichloromethane		0.7109613					
cis-1,3-Dichloropropene		0.5549712				90.00	AVRO
4-Methyl-2-pentanone		0.2439825					AVRO
Toluene	0.7200000	0.7320347	0.7320347	0.001	1.67	20.00	AVRO
trans-1,3-Dichloropropene		0.6071978				90.00	AVRG
1,1,2-Trichloroethane		0.3547360					
Tetrachloroethene		0.4382732				90.00	AVRO
2-hexanone		0.1741407					AVRO
Dibromochloromethane	0.6610000	0.7167723	0.7167723	0.001	8.44	90.00	AVRO
1,2-Dibromoethane		0.5354042					
Chlorobenzene		1.0018769					
Ethylbenzene		0.4926166					
Styrene		0.9071205			•		
Bromoform	•	0.4448829		•	•	•	
Isopropyl Benzene		1.7045053		0.001	:		
1,1,2,2-Tetrachloroethane	•	1.0971483	:	0.3	•		5
1,3-Dichlorobenzene	:	1.4729857	,	•	1	!	•
1,4-Dichlorobenzene	•	1.6443987	•	•	!		
1,2-Dichlorobenzene	1.2700000	1.3341835	1.3341835	0.001	5.05	90.00	AVRO
page 1 of 2	[l	l		176

FORM 7B VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812

Instrument ID: F50052 Calibration Date: 01/16/03 Time: 1036

Lab File ID: CU030116A52 Init. Calib. Date(s): 01/07/03 01/07/03

Init. Calib. Times: 1821 2058

GC Column: EQUITY624 ID: 0.53 (mm)

		RRF50					[
COMPOUND	RRF or	or	CCAL	MIN	%D or	MAX %D or	•
	TRUOMA	TNUOMA	RRF50		%DRIFT	%DRIFT	TYPE
	=======	=======	=======	=====	•	=======	
Dichlorodifluoromethane		0.6433973	· ·				•
Chloromethane		0.2824307			!		•
Vinyl Chloride		0.3309339	•	Į.	<u>.</u>	!	:
Bromomethane		0.3963550					
Chloroethane		0.2052957					
Trichlorofluoromethane	246.50438	250.00000	0.7711667	0.001	-1.40	90.00	2RDI
1,1-Dichloroethene	0.3060000	0.3460671	0.3460671	0.001	13.09		
Carbon disulfide		1.2293070				90.00	AVRO
1,1,2-trichloro-1,2,2-triflu	0.9800000	1.0409811	1.0409811	0.001	6.22	90.00	AVRO
Acetone	511.99104	625.00000	0.0336675	0.001	-18.08	90.00	2RDF
Methylene Chloride	0.3380000	0.3447298	0.3447298	0.001			AVRO
trans-1,2-Dichloroethene	0.2960000	0.3901295	0.3901295	0.001	31.80	90.00	AVRO
athyl-tert-butyl ether		0.6886318			12.16	90.00	AVRO
1-Dichloroethane	0.5850000	0.5966298	0.5966298	0.1	1.99	90.00	AVRO
cis-1,2-Dichloroethene	0.3060000	0.3029154	0.3029154	0.001	-1.01	90.00	AVRO
2-butanone	571.04660	625.00000	0.0507733	0.001	-8.63	90.00	2RDI
Chloroform	0.7600000	0.7092126	0.7092126	0.001	-6.68	20.00	AVRO
1,1,1-Trichloroethane	0.6920000	0.7003948	0.7003948	0.001	1.21	90.00	AVRO
Carbon Tetrachloride	0.7020000	0.6277856	0.6277856	0.001	-10.57	90.00	AVRO
Benzene	0.8520000	0.9144648	0.9144648	0.001	7.33	90.00] AVR
1,2-Dichloroethane	0.4070000	0.3846315	0.3846315	0.001	~5.50	90.00	AVRO
Trichloroethene	0.3530000	0.3387484	0.3387484	0.001	-4.04	90.00	AVRO
1,2-Dichloropropane	0.3880000	0.3876837	0.3876837	0.001	-0.08	20.00	AVR
Bromodichloromethane	0.7600000	0.6922456	0.6922456	0.001	-8.92	90.00	AVR
cis-1,3-Dichloropropene	0.5380000	0.5383089	0.5383089	0.001	0.06	90.00	AVR
4-Methyl-2-pentanone	0.2170000	0.1992423	0.1992423	0.001	-8.18	90.00	AVR
Toluene	0.7200000	0.7428938	0.7428938	0.001	3.18	20.00	AVRO
trans-1,3-Dichloropropene	0.5600000	0.5815311	0.5815311	0.001	3.84	90.00	AVR
1,1,2-Trichloroethane	0.3240000	0.3472570	0.3472570	0.001	7.18	90.00	AVRO
Tetrachloroethene	0.4420000	0.4476390	0.4476390	0.001	1.28	90.00	AVRO
2-hexanone	0.1570000	0.1429180	0.1429180	0.001	-8.97	90.00	AVRO
Dibromochloromethane	0.6610000	0.7043453	0.7043453	0.001	6.56	90.00	AVR
1,2-Dibromoethane	0.4760000	0.5096217	0.5096217	0.001	7.06	90.00	AVR
Chlorobenzene	0.9200000	1.0247532	1-0247532	0.3	11.39	90.00	AVR
Ethylbenzene	0.4300000	0.5031619	0.5031619	0.001		•	AVR
Styrene	0.8250000	0.9190114	0.9190114	0.001	11.40	90.00	AVR
Bromoform	0.4320000	0.4310185	0.4310185	0.1	-0.23	90.00	AVR
Isopropyl Benzene	1.5490000	1.7794938	1.7794938			1	
1,1,2,2-Tetrachloroethane		1.0853017		0.3	0.86		
1,3-Dichlorobenzene		1.5616102		0.001	9.97	1,	!
1,4-Dichlorobenzene		1.6399606			1.54	!	
2-Dichlorobenzene		1.3408343			5.58	•	
0.70 1 0.5 2			l		l	l	امب
age 1 of 2		FORM VII	1703			4	86

FORM 7B VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY Case No :

SAS No.: SDG No.: T2812

Instrument ID: 5972HP59 Calibration Date: 01/21/03 Time: 2117

Init. Calib. Date(s): 01/09/03 01/09/03

Lab File ID: GS030121B59

Init. Calib. Times: 1133 1340

GC Column: ZB-624 ID: 0.32 (mm)

		RRF50		<u> </u>			Ī
COMPOUND	RRF or	or	CCAL	MIN	%D or	MAX %D or	CURV
	AMOUNT	TNUOMA	RRF50	RRF	%DRIFT	%DRIFT	TYPE
	=======	========	=======	=====	======		====
Dichlorodifluoromethane	0.4920000	0.5323411	0.5323411	0.001	8.20	90.00	AVRG
Chloromethane	0.2470000	0.2415070	0.2415070	0.1			AVRG
Vinyl Chloride			0.2090026			20.00	AVRG
Bromomethane			0.2865364				
Chloroethane			0.0928866			90.00	AVRG
Trichlorofluoromethane			0.6170319				AVRG
1,1-Dichloroethene_	0.2410000	0.2534785	0.2534785	0.001	5.18	20.00	AVRG
Carbon disulfide	0.9200000	0.9248642	0.9248642	0.001	0.53	90.00	AVRG
Carbon disulfide 1,1,2-trichloro-1,2,2-triflu	0.4300000	0.4500187	0.4500187	0.001	4.66	90.00	AVRG
Acetone			0.0443402			90.00	2RDR
Methylene Chloride			0.2785478			90.00	AVRG
trans-1,2-Dichloroethene			0.2667053			90.00	AVRG
Methyl-tert-butyl ether			0.6191970			90.00	AVRG
1,1-Dichloroethane			0.3904266				AVRG
cis-1,2-Dichloroethene			0.2878508			90.00	AVRG
2-butanone			0.0667631				2RDR
Chloroform			0.5396758			20.00	AVRG
1,1,1-Trichloroethane			0.4949877			90.00	AVRG
Carbon Tetrachloride			0.4630996			90.00	AVRG
Benzene	0.8350000	0.8458789	0.8458789	0.001	1.30	90.00	AVRG
1,2-Dichloroethane	0.3860000	0.3200522	0.3200522	0.001	-17.08	90.00	AVRG
Trichloroethene			0.2398167		4.27	90.00	
1,2-Dichloropropane			0.1844228			20.00	AVRG
Bromodichloromethane			0.3779694		-10.86	90.00	AVRG
cis-1,3-Dichloropropene	0.3850000	0.3651922	0.3651922	0.001	-5.14		
4-Methyl-2-pentanone	0.2360000	0.2395985	0.2395985	0.001	1.52		
Toluene	0.9340000	0.9196571	0.9196571	0.001	-1.54		AVRG
trans-1,3-Dichloropropene	0.5830000	0.5117167	0.5117167	0.001	-12.23		
1,1,2-Trichloroethane	0.3600000	0.3609267	0.3609267	0.001			AVRG
Tetrachloroethene			0.4012082				
2-hexanone	0.1680000	0.1601201	0.1601201	0.001	-4.69		
Dibromochloromethane	0.5910000	0.5435285	0.5435285	0.001	-8.03		AVRG
1.2-Dibromoethane			0.4116702				
Chlorobenzene			0.9415503				
Ethylpenzene			0.4468667				AVRG
Styrene			0.9120219				
Bromoform			0.4435914			90.00	
Isopropyl Benzene	1.6860000	1.5192377	1.5192377	0.001			,
1,1,2,2-Tetrachloroethane			0.7669232				
1,3-Dichlorobenzene			1.4306808				AVRG
1,4-Dichlorobenzene	1.6210000	1.4893542	1.4893542	0.001	-8.12	1	·
1,2-Dichlorobenzene	1.4420000	1.3332912	1.3332912	0.001	-7.54	90.00	AVRG
222 1 25 2	i	1	1	l			l
page 1 of 2		EODM ATT				4	9

495

CompuChem

a division of Liberty Analytical Corporation 501 Madison Avenue Cary, N.C. 27513

Tel: 919/379-4100 Fax: 919/379-4050

SDG NARRATIVE

SDG # T2812 PROTOCOL: SW-846

SAMPLE IDENTIFICATIONS: ER-SS-010803, EF-SS-010903, GW-MW01, GW-MW02, GW-MW02-D, GW-MW03, GW-MW05, GW-MW06, GW-MW07, GW-MW08, GW-MW09, GW-MW10, GW-MW11.

The thirteen aqueous samples listed above were received properly refrigerated between 2.1-3.7°C, with proper documentation, in sealed shipping containers, on January 8 through January 15, 2003. With the exception of GW-MW03, these samples were received intact. One amber liter of GW-MW03 was received broken. Enough sample was received to proceed with analysis from another container. The samples were scheduled for the requested analyses of the semivolatile fraction. SW-846, 3rd Edition, Update 3, Separatory Funnel extraction (Method 3510C), and Method 8270C were used to prepare and analyze these samples, with the exceptions and/or additions requested by the client. This portion of the SDG narrative deals with the semivolatile fractions only. All pertinent Quality Assurance Notices are included in the narrative section, and all pertinent Laboratory Notices for SDG # T2812 are included in the sample data sections. Extraction and analysis holding time requirements were met for all of these samples.

There were no semivolatile project analytes identified above the Quantitation Limit (QL) in any of these samples. Tentatively Identified Compounds (TICs) were found in eight of these samples. The TICs found in these samples could be characterized as sulfur and unknowns. Manual quantitations were performed on one or more of the process files associated with this SDG. The reasons have been coded with explanations provided in the notice included in the narrative section of the SDG. 500 mL of raw sample were used to extract GW-MW08, rather than the method-specified amount of 1000 mL. Low sample volume was received for this sample. The extract was concentrated to a final volume half that of the method-specified volume, and therefore no effective dilution was performed during the extraction procedure.

All decafluorotriphenylphosphine (DFTPP) abundance criteria were met for tunes associated to this SDG. Tailing factor criteria were met for pentachlorophenol and benzidine. The breakdown criterion was met for DDT. These three compounds have been added to the DFTPP solution and analyzed together. Overall QC criteria were met for all initial and continuing calibration standards associated to this SDG. All of the surrogates met recovery criteria in the analyses of these samples. All of the internal standards met response and retention time criteria in the analyses of these associated method blanks met all quality control criteria. There were no TICs found in these method blanks. GW-MW11 was used as the original to prepare the duplicate matrix spikes as requested. The associated duplicate matrix spikes met all advisory accuracy criteria. With four exceptions, all advisory precision criteria were met in the comparison of the duplicate matrix spikes. The associated Laboratory Control Sample (LCS) met overall accuracy criteria.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Rebecca K. Mead

Supervisor, GC/MS SVOA

January 27, 2003

Laboratory Notice

Calibration Date(s): 17-DEC-2002 18:42 17-DEC-2002 21:37

Instrument ID: 5972hp64

An initial calibration was analyzed by Method 8270C. Per the methodology, all compounds are to meet a Percent Relative Standard Deviation (%RSD) limit of no more than 15%. Additional calibration options are provided in the method when the RSD exceeds 15%. CompuChem as chosen to apply the option of determining the mean RSD values or all analytes in the initial calibration.

When there are analytes with %RSDs greater than the limit, proof of alibration linearity can be shown if the average of all compounds in he initial calibration meet the same 15% limit. Based on Method 8270C, ec. 7.3.7.1, and Method 8000B, Section 7.5.1.2, we are providing a list f the compounds which failed to meet the limit, and their associated RSDs. Finally, the average of all %RSDs from all compounds in the initial alibration is shown, confirming the usability of the initial calibration and any data that follows it nd any data that follows it.

ompound Name	RSD
========	====
yridine	20.6
trazine	86.1
enzidine	37.0

verage %RSD for all compounds in the Initial Calibration: 5.6 %

Data Reviewer/ID:	12391
	•
Date:	12/19/02

FORM 5 SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.:

SDG No.: T2812

Lab File ID: DF030109A64

DFTPP Injection Date: 01/09/03

Instrument ID: 5972HP64

DFTPP Injection Time: 0934

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51 68 69 70 127 197 198 199 275 365 441 442 443	30.0 - 80.0% of mass 198 Less than 2.0% of mass 69 Mass 69 relative abundance Less than 2.0% of mass 69 25.0 - 75.0% of mass 198 Less than 1.0% of mass 198 Base Peak, 100% relative abundance 5.0 to 9.0% of mass 198 10.0 - 30.0% of mass 198 Greater than 0.75% of mass 198 Present, but less than mass 443 40.0 - 110.0% of mass 198 15.0 - 24.0% of mass 442	42.2 0.0 (0.0)1 56.9 0.1 (0.1)1 42.3 0.0 100.0 6.7 22.1 3.10 13.3 87.3 16.5 (18.9)2
·	1-Value is % mass 69 2-Value is % mass	442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22	SSTD080 SBLKIJ SIJLCS GW-MW01 GW-MW02-D GW-MW02	SSTD080 WG22350-1 WG22350-2 T2812-1 T2812-3 T2812-2	HG030109A64 WG22350-1A64 WG22350-2A64 T2812-1A64 T2812-3A64 T2812-2JA64	01/09/03 01/09/03 01/09/03 01/09/03 01/09/03 01/09/03	0956 1035 1111 1146 1257 1416
age 1 of 1		•			

FORM V SV

FORM 7B SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM

Contract: 8270C

Lab Code: LIBRTY Case No.:

SAS No.: SDG No.: T2812

Instrument ID: 5972HP64 Calibration Date: 01/09/03 Time: 0956

Lab File ID: HG030109A64

Init. Calib. Date(s): 12/17/02 12/17/02

Init. Calib. Times: 1842

2137

GC Column: RTX-5MS ID: 0.32 (mm)

	1	RRF80.000				
COMPOUND	RRF OR	OR	MIN	%D OR	MAX &D OR	CURV
	TRUDOMA	AMOUNT	RRF	%DRIFT	%DRIFT	TYPE
	=======	=======	=====		========	====
N-Nitrosodiphenylamine	0.5850000	0.5678619	0.01	-2.93	20.00	AVRG
4-Bromophenyl-phenylether	1	0.2880939	0.01	-3.65	50.00	AVRG
Hexachlorobenzene		0 3361939	0.01	0.96	50.00	AVRG
Atrazine		0.0439847	0.01	-62.08	50.00	AVRG
Pentachlorophenol	0.1850000	0.1738772	0.05	-6.01	20.00	AVRG
Phenanthrene	1.1590000	1.1495419	0.01	-0.82	50.00	AVRG
Anthracene	1.1510000	1.1308550	0.01	-1.75	50.00	AVRG
Carbazole	1.0240000	0.9301350	0.01	-9.17	50.00	AVRG
Di-n-butylphthalate	1.7210000	1.6665747	0.01	-3.16	50.00	AVRG
Fluoranthene	1.3760000	1.3871315	0.01	0.81	20.00	AVRG
Pyrene	1.4170000	1.3478756	0.01	-4.88		: :
Butylbenzylphthalate	0.8000000	0.7214006	0.01	-9.82	!	
3,3'-Dichlorobenzidine	0.4430000	0.4440637	0.01	0.24	•	
bis (2-ethylhexyl) Phthalate	1.0400000	0.9490731	0.01	-8.74		: :
Benzo(a) anthracene	1.3370000	1.3099690	0.01	-2.02		1 1
Chrysene	1.2040000	1.1680010	0.01			
Di-n-octylphthalate	2.5580000	2.2877294	0.01	-10.56		
Benzo(b) fluoranthene	1.7420000	1.8288301	0.01	4.98	•	AVRG
Benzo(k) fluoranthene	1.6930000	1.5522627	0.01	-8.31		
Benzo(a)pyrene	1.5570000	1.5356741	0.01	-1.37		
Indeno(1,2,3-cd)pyrene	1.5310000	1.6515042	0.01	7.87	50.00	, ,
Dibenzo(a,h)anthracene	1.4120000	1.4567943	0.01	3.17	50.00	[
Benzo(g,h,i)perylene	1.4410000	1.5399606	0.01	6.87	50.00	
	=======		=====		!	! ' !
2-Fluorophenol	1.3700000	1.4031972	0.01	2.42	50.00	
Phenol-d5		1.7545553		-1.48	50.00	
Nitrobenzene-d5		0.5313549		-1.24		!!
2-Fluorobiphenyl		1.5050389		-2.21		
2,4,6-Tribromophenol		0.4401086		9.75		
Terphenyl-d14_		1.0560419	0.01	-1.58	50.00	
				2.50	20.00	

age 2 of 2

FORM 5 SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812

Lab File ID: DF030112A64

DFTPP Injection Date: 01/12/03

Instrument ID: 5972HP64

DFTPP Injection Time: 1009

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51 68 69 70 127 197 198 199 275 365 441 442 443	30.0 - 80.0% of mass 198 Less than 2.0% of mass 69 Mass 69 relative abundance Less than 2.0% of mass 198 Less than 1.0% of mass 198 Base Peak, 100% relative abundance 5.0 to 9.0% of mass 198 10.0 - 30.0% of mass 198 Greater than 0.75% of mass 198 Present, but less than mass 443 40.0 - 110.0% of mass 198 15.0 - 24.0% of mass 442	38.5 0.0 (0.0)1 54.6 0.0 (0.0)1 40.0 0.0 100.0 6.7 22.6 3.17 13.6 89.4 16.3 (18.3)2
	1-Value is % mass 69 2-Value is % mass	442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21	SSTD080 SBLKIX SIXLCS GW-MW09 GW-MW05 GW-MW06 ER-SS-010903	SSTD080 WG22379-1 WG22379-2 T2812-11 T2812-12 T2812-13 T2812-14	HG030112A64 WG22379-1A64 WG22379-2A64 T2812-11A64 T2812-12A64 T2812-13A64 T2812-14A64	01/12/03 01/12/03 01/12/03 01/12/03 01/12/03 01/12/03 01/12/03	1030 1118 1153 1228 1303 1338 1413
age 1 of 1		•			

FORM V SV

FORM 7B SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM

Contract: 8270C

Lab Code: LIBRTY Case No.:

SAS No.: SDG No.: T2812

Instrument ID: 5972HP64 Calibration Date: 01/12/03 Time: 1030

Lab File ID: HG030112A64 Init. Calib. Date(s): 12/17/02 12/17/02

Init. Calib. Times: 1842 2137

GC Column: RTX-5MS ID: 0.32 (mm)

		RRF80.000				
COMPOUND	RRF OR	OR	MIN	%D OR	MAX %D OR	CURV
	AMOUNT	AMOUNT	RRF	%DRIFT	%DRIFT	TYPE
(运动性性) () () () () () () () () () () () () ()		=======	=====			====
<pre>J-Nitrosodiphenylamine</pre>		0.5646846		-3.47	20.00	AVRG
!-Bromophenyl-phenylether		0.2965556		-0.82	50.00	AVRG
Iexachlorobenzene		0.3481779		4.56	50.00	AVRG
trazine		0.0207813		-82.08	50.00	AVRG
entachlorophenol	0.1850000	0.1798137	0.05	-2.80	20.00	AVRG
'henanthrene	1.1590000	1.1492952	0.01	-0.84	Į.	
unthracene	1.1510000	1.1556420	0.01	0.40		, ,
:arbazole	1.0240000	0.9756965	0.01	-4.72	50.00	
i-n-butylphthalate	1.7210000	1.6915083	0.01	-1.71		
'luoranthene	1.3760000	1.4023391	0.01	1.91	!	
'yrene	1.4170000	1.2712856	0.01	-10.28		
Sutylbenzylphthalate	0.8000000	0.7308250	0.01	-8.65	1	
,3'-Dichlorobenzidine	0.4430000	0.3990207	0.01	-9.93	Į.	1
ois(2-ethylhexyl)Phthalate	1.0400000	0.9486631	0.01			
senzo(a)anthracene	1.3370000	1.3275006	0.01	-0.71		
:hrysene	1.2040000	1.1957471	0.01	-0.68		
i-n-octylphthalate	2.5580000	2.2257180	0.01	-12.99		
enzo(b)fluoranthene	1.7420000	1.7818230	0.01	2.29	50.00	
enzo(k)fluoranthene	1.6930000	1.5107775	0.01	-10.76		, ,
enzo(a)pyrene		1.4870520	0.01	-4.49	20.00	
ndeno(1,2,3-cd)pyrene		1.6030756	0.01	4.71	50.00	
ibenzo(a,h)anthracene	1.4120000	1.5168733	0.01	7.43	50.00	. ,
enzo(g,h,i)perylene	1.4410000		0.01	7.93	50.00	
	=======	========	=====	======		====
-Fluorophenol	1.3700000	1.3610190	0.01	-0.66	50.00	
henol-d5		1.7655201	0.01	-0.87	50.00	
itrobenzene-d5		0.5145369	0.01	-4.36	50.00	
-Fluorobiphenyl_	1.5390000		0.01	-1.59		- 1
,4,6-Tribromophenol	0.4010000		0.01	6.26	50.00	•
erphenyl-d14	1.0730000		0.01	-6.99	50.00	- 1
	j i			ا در د	50.00	Love

ige 2 of 2

FORM 5 SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: COMPUCHEM

Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.:

SDG No.: T2812

Lab File ID: DF030119A64

DFTPP Injection Date: 01/19/03

Instrument ID: 5972HP64

DFTPP Injection Time: 1037

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51 68 69 70 127 197 198 199 275 365 441 442 443	30.0 - 80.0% of mass 198 Less than 2.0% of mass 69 Mass 69 relative abundance Less than 2.0% of mass 69 25.0 - 75.0% of mass 198 Less than 1.0% of mass 198 Base Peak, 100% relative abundance 5.0 to 9.0% of mass 198 10.0 - 30.0% of mass 198 Greater than 0.75% of mass 198 Present, but less than mass 443 40.0 - 110.0% of mass 198 15.0 - 24.0% of mass 442	40.4 0.0 (0.0)1 53.3 0.3 (0.5)1 41.1 0.0 100.0 6.4 22.7 3.33 14.3 95.2 18.8 (19.8)2
· —— ·	1-Value is % mass 69 2-Value is % mass	442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01 02 03 04 05	SSTD080 SBLKKB SKBLCS GW-MW03	SSTD080 WG22457-1 WG22457-2 T2812-16	HG030119A64 WG22457-1A64TC WG22457-2A64TC T2812-16A64	01/19/03 01/19/03 01/19/03 01/19/03	1059 1134 1209 1244
06 07 08					
09 10 11 12					
13 14 15					
16 17 18					
19 20 21					
22 age 1 of 1					

FORM V SV

FORM 7B SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812

Instrument ID: 5972HP64 Calibration Date: 01/19/03 Time: 1059

Lab File ID: HG030119A64 Init. Calib. Date(s): 12/17/02 12/17/02

Init. Calib. Times: 1842 2137

GC Column: RTX-5MS ID: 0.32 (mm)

		RRF80.000				
COMPOUND	RRF OR	OR	MIN	%D OR	MAX &D OR	CURV
	TRUOMA	AMOUNT	RRF	*DRIFT	%DRIFT	TYPE
*======================================				======		====
N-Nitrosodiphenylamine	0.5850000	0.5581275	0.01	-4.59	20.00	AVRG
4-Bromophenyl-phenylether		0.2936480		-1.79	50.00	AVRG
Hexachlorobenzene	0.3330000	0.3463592	0.01	4.01	50.00	AVRG
Atrazine	0.116000 0 (0.0161768	Do.01	-86.05	50.00	AVRG
Pentachlorophenol	0.1850000	0.1740709	0.05	-5.91	20.00	AVRG
Phenanthrene	1.1590000	1.1354126	0.01	-2.04	50.00	AVRG
Anthracene	1.1510000	1.1257494	0.01	-2.19	50.00	AVRG
Carbazole	1.0240000	0.9338782	0.01	-8.80	50.00	AVRG
Di-n-butylphthalate	1.7210000	1.6797607	0.01	~2.40	50.00	AVRG
Fluoranthene		1.3781099		0.15	20.00	AVRG
Pyrene	1.4170000	1.2977281	0.01	-8.42	50.00	AVRG
Butylbenzylphthalate	0.8000000	0.7304290	0.01	-8.70		
3,3'-Dichlorobenzidine	0.4430000	0.3890163	0.01	-12.18		
ois(2-ethylhexyl)Phthalate_	1.0400000	0.9543653	0.01	-8.23		
Benzo (a) anthracene	1.3370000	1.3110517	0.01	-1.94		
Chrysene	1.2040000	1.2055252	0.01	0.13		
Di-n-octylphthalate	2.5580000	2.2914653	0.01	-10.42		
Benzo(b) fluoranthene	1.7420000	1.7160254	0.01	-1.49		•
Benzo(k) fluoranthene	1.6930000	1.6860304	0.01			AVRG
Benzo(a)pyrene	1.5570000	1.5638276	0.01	0.44		
[ndeno(1,2,3-cd)pyrene	1.5310000	1.6917409	0.01	10.50		
Dibenzo(a,h)anthracene	1.4120000	1.4888619	0.01	5.44		
Benzo(g,h,i)perylene	1.4410000	1.5126374	0.01	4.97	50.00	
	=======		=====		========	====
?-Fluorophenol	1.3700000	1.3651290	0.01	-0.36	50.00	AVRG
?henol-d5	1.7810000	1.7513646	0.01	-1.66		
Nitrobenzene-d5	0.5380000	0.5222652	0.01			
?-Fluorobiphenyl		1.5150621	0.01	-1.56		
2,4,6-Tribromophenol	0.4010000	0.4327378	0.01	7.91		
erphenyl-d14		1.0433728	0.01	-2.76	50.00	

age 2 of 2

CompuChem

a division of Liberty Analytical Corporation 501 Madison Avenue Cary, N.C. 27513

Tel: 919/379-4100

Fax: 919/379-4050

SDG NARRATIVE SDG # T2812 PROTOCOL: SW-846

SAMPLE IDENTIFICATIONS:

ER-SS-010803 GW-MW02-D GW-MW07
ER-SS-010903 GW-MW03 GW-MW08
GW-MW01 GW-MW05 GW-MW09
GW-MW02 GW-MW06 GW-MW10

The 13 water samples listed above were received intact, properly refrigerated, with proper documentation, in sealed shipping containers, on January 8 through 15, 2003 The samples were scheduled for the requested analyses of the pesticide/PCB fractions. SW-846, 3rd Edition, Update 3, Separatory Funnel extraction (Method 3510C), and Method 8081A/8082 were used to prepare and analyze these samples, with the exceptions and/or additions requested by the client. This portion of the SDG narrative deals with the pesticide/PCB fractions only. All pertinent Quality Assurance notices are included in the narrative section and all pertinent Laboratory notices for SDG # T2812 are included in the sample data sections.

Pesticides/PCBs

Extraction and analysis holding time requirements were met for all of these samples. There were no pesticide/PCB TCL analytes confirmed by dual column above the Quantitation Limit (QL) in any of these samples. Manual quantitations were performed on one or more of the process files associated with this SDG, including samples GW-MW02, GW-MW02-D, GW-MW03, GW-MW06, and GW-MW07. The reasons have been coded with explanations provided in the notice included in the narrative section of the SDG.

All QC criteria were met for all initial and continuing calibration standards associated to this SDG. All of the surrogates met recovery and retention time criteria in the analyses of these samples. However, the surrogates are flagged as outside retention time window on the Form VIII for the samples analyzed on January 10, 2003. The retention time window on the Form VIII is set from the initial calibration. When the window is set using the times from the daily calibration verification standard per method 8000B, all of the retention times are within the corrected window.

The associated method blanks met all quality control criteria.

Sample GW-MW11 was used as the original to prepare the duplicate matrix spikes. The recovery of the spike compound 4,4'-DDT was flagged as an outlier in the matrix spike duplicate. The Relative Percent Difference (RPD) of gamma-BHC (lindane) was flagged as an outlier in the comparison of the duplicate matrix spikes.

The associated Laboratory Control Samples (LCS) met all accuracy criteria.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Elsie S. Byrd

Senior Scientist I

January 27, 2003

GW-MW11

Lab Name: COMPUCHEM

Contract: 8081A

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: T2812

GC Column: CLPEST

ID: 0.53 (mm) Init. Calib. Date(s): 12/18/02 12/18/02

Instrument ID: VARIAN34

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	MEAN SURROO S1 : 21.27	GATE RT FROM TCX:	INITIAL CAL	IBRATION		
	EPA	LAB	DATE	TIME	S1	TCX
	SAMPLE NO.	SAMPLE ID	ANALYZED	ANALYZED	RT #	RT #
		==========	=======	=========		======
01	PEMXV	PEMXV	12/18/02	1201	21.28	4.41
02	INDA1XV	INDA1XV	12/18/02	1232	21.27	4.40
03	INDB1XV	INDB1XV	12/18/02	1303	21.27	4.41
04 05	INDA2XV	INDA2XV	12/18/02	1334	21.27	4.40
06	INDB2XV INDA3XV	INDB2XV	12/18/02	1405	21.27	4.41
0.7	INDB3XV	INDA3XV	12/18/02	1435	21.26	4.40
08	INDA4XV	INDB3XV	12/18/02	1506	21.27	4.41
09	INDB4XV	INDA4XV	12/18/02	1537	21.28	4.41
10	INDB4XV INDA5XV	INDB4XV	12/18/02	1608	21.27	4.40
11	INDB5XV	INDA5XV	12/18/02	1639	21.27	4.40
12	TOXAPH4XV	INDB5XV	12/18/02	1709	21.26	4.40
13	CHLORO4XV	TOXAPH4XV	12/18/02	1740	21.28	4.41
14	AR16601XV	CHLORO4XV	12/18/02	1811	21.26	4.40
15	AR16601XV	AR16601XV	12/18/02	1842	21.26	4.40
16		AR16602XV	12/18/02	1913	21.26	4.40
17	AR16603XV	AR16603XV	12/18/02	1944	21.27	4.40
18	AR16604XV	AR16604XV	12/18/02	2015	21.26	4.40
	AR16605XV	AR16605XV	12/18/02	2045	21.27	4.40
19	AR12214XV	AR12214XV	12/18/02	2116	21.25	4.40
20 21	AR12324XV	AR12324XV	12/18/02	2147	21.26	4.40
22	AR12424XV	AR12424XV	12/18/02	2218	21.25	4.39
23	AR12484XV	AR12484XV	12/18/02	2249	21.26	4.40
24	AR12544XV	AR12544XV	12/18/02	2320	21.27	4.40
25	PIBLK3C	PIBLK3C	01/09/03	2257	21.18*	4.34
26	AR16603D	AR16603D	01/10/03	0024	21.18*	4.34
27	INDAM3D	INDAM3D	01/10/03	0102	21.17*	4.34
	INDBM3D	INDBM3D	01/10/03	0133	21.18*	4.34
28 29	PEM3D PBLKIK	PEM3D	01/10/03	0204	21.16*	4.33
30	PLCSIK	WG22352-1	01/10/03	0235	21.17*	4.33
31	PCBLCSIK	WG22352-2	01/10/03	0306	21.16*	4.34
32	GW-MW01	WG22352-3	01/10/03	0337	21.17*	4.34
ا ∡د	GM-MMOT	T2812-1	01/10/03	0408	21.18*	4.34
i	l					

QC LIMITS S1 = Decachlorobiphenyl (DC (+/- 0.07 MINUTES) TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

[#] Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Lab Name: COMPUCHEM

Contract: 8081A

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: T2812

GC Column: CLPEST

ID: 0.53 (mm) Init. Calib. Date(s): 12/18/02 12/18/02

Instrument ID: VARIAN34

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	MEAN SURRO S1 : 21.27	GATE RT FROM	INITIAL CAL	IBRATION	1	
		TCX:	4.40			
	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	TCX RT #
01 02 03 04 05 06 07	GW-MW02-D GW-MW08 PIBLK3E AR16603F INDAM3F	T2812-2 T2812-3 T2812-4 PIBLK3E AR16603F INDAM3F	01/10/03 01/10/03 01/10/03 01/10/03 01/10/03 01/10/03	0439 0510 0541 0643 0714 0745	21.17* 21.19* 21.18* 21.18* 21.18* 21.18*	4.34 4.35 4.34 4.35 4.35 4.35 4.35
08 09 10	INDBM3F	INDBM3F	01/10/03	0816	21.20*	4.35
12 13 14 15						
16 17 18 19						
20 21 22 23						
24 25 26 27						
28 29 30 31						
32						

QC LIMITS S1 = Decachlorobiphenyl (DC (+/- 0.07 MINUTES) TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

[#] Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Lab Name: COMPUCHEM Contract: 8081A

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812

GC Column: CLPEST2 ID: 0.53 (mm) Init. Calib. Date(s): 12/18/02 12/18/02

Instrument ID: VARIAN35

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	MEAN SURRO	GATE RT FROM	INITIAL CAL	IBRATION	1	
	S1 : 24.70	TCX:	5.59			
	EPA	LAB	DATE	TIME	S1	TCX
	SAMPLE NO.	SAMPLE ID	ANALYZED	ANALYZED	RT #	RT #
0.1	PERMIT		========	========	======	==== =
01	PEMXV	PEMXV	12/18/02	1201	24.70	5.60
02	INDA1XV	INDA1XV	12/18/02	1232	24.68	5.59
03	INDB1XV	INDB1XV	12/18/02	1303	24.69	5.60
04	INDA2XV	INDA2XV	12/18/02	1334	24.68	5.59
05	INDB2XV	INDB2XV	12/18/02	1405	24.69	5.60
06	INDA3XV	INDA3XV	12/18/02	1435	24.68	5.59
07	INDB3XV	INDB3XV	12/18/02	1506	24.69	5.60
08	INDA4XV	INDA4XV	12/18/02	1537	24.70	5.60
09	INDB4XV	INDB4XV	12/18/02	1608	24.68	5.59
10	INDA5XV	INDA5XV	12/18/02	1639	24.70	5.59
11	INDB5XV	INDB5XV	12/18/02	1709	24.68	5.59
12	TOXAPH4XV	TOXAPH4XV	12/18/02	1740	24.70	5.60
13	CHLORO4XV	CHLORO4XV	12/18/02	1811	24.68	5.59
14	AR16601XV	AR16601XV	12/18/02	1842	24.68	5.59
15	AR16602XV	AR16602XV	12/18/02	1913	24.68	5.59
16	AR16603XV	AR16603XV	12/18/02	1944	24.69	5.59
17	AR16604XV	AR16604XV	12/18/02	2015	24.68	5.59
18	AR16605XV	AR16605XV	12/18/02	2045	24.69	5.59
19	AR12214XV	AR12214XV	12/18/02	2116	24.68	5.59
20	AR12324XV	AR12324XV	12/18/02	2147	24.68	5.59
21	AR12424XV	AR12424XV	12/18/02	2218	24.67	5.58
22	AR12484XV	AR12484XV	12/18/02	2249	24.68	5.59
23	AR12544XV	AR12544XV	12/18/02	2320	24.69	5.59
24	PIBLK3D	PIBLK3D	01/09/03	2257	24.55*	5.51*
25	AR16603D	AR16603D	01/10/03	0024	24.54*	5.51*
26	INDAM3D	INDAM3D	01/10/03	0102	24.54*	5.51*
27	INDBM3D	INDBM3D	01/10/03	0133	24.55*	5.51*
28	PEM3D	PEM3D	01/10/03	0204	24.53*	5.50*
29	PBLKIK	WG22352-1	01/10/03	0235	24.54*	5.50*
30	PLCSIK	WG22352-2	01/10/03	0306	24.53*	5.51*
31	PCBLCSIK	WG22352-3	01/10/03	0337	24.54*	5.51*
32	GW-MW01	T2812-1	01/10/03	0408	24.55*	5.51*
			_,,	0.00	24.55	۱ " ت د . د
		· 	·			

QC LIMITS

S1 = Decachlorobiphenyl (DC (+/-0.07 MINUTES) TCX = Tetrachloro-m-Xylene (+/-0.07 MINUTES)

page 1 of 2

[#] Column used to flag retention time values with an asterisk. * Values outside of QC limits.

Lab Name: COMPUCHEM

Contract: 8081A

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: T2812

GC Column: CLPEST2

ID: 0.53 (mm) Init. Calib. Date(s): 12/18/02 12/18/02

Instrument ID: VARIAN35

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	MEAN SURROO S1 : 24.70	GATE RT FROM TCX:	INITIAL CAL	IBRATION		
	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	TCX RT #
01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 27 27 27 27 27 27 27 27 27 27 27 27	SAMPLE NO.			ł .		
26 27 28 29 30						
31 32						

QC LIMITS S1 = Decachlorobiphenyl (DC (+/- 0.07 MINUTES) TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

[#] Column used to flag retention time values with an asterisk. * Values outside of QC limits.

Lab Name: COMPUCHEM

Contract: 8081A

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: T2812

GC Column: CLPEST

ID: 0.53 (mm) Init. Calib. Date(s): 01/10/03 01/11/03

Instrument ID: VARIAN34

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SIRPOGATE DT PROM INITIAL CALIDRATION

	MEAN SURRO	GATE RT FROM : TCX:	INITIAL CAL: 4.37	IBRATION		
	EPA SAMPLE NO.	LAB SAMPLE ID	DATE	TIME	S1	TCX
	SAMPLE NO.	SAMPLE ID	ANALYZED	ANALYZED	RT #	RT #
01)	РЕМЗМ	01/10/03	2235	21.21	4.36
02	INDA13M	INDA13M	01/10/03	2306	21.21	4.36
03	INDB13M	INDB13M	01/10/03	2337	21.21	4.37
04	INDA23M	INDA23M	01/11/03	0008	21.20	4.36
05	INDB23M	INDB23M	01/11/03	0039	21.21	4.36
06	INDA33M	INDA33M	01/11/03	0111	21.21	4.36
07	INDB33M	INDB33M	01/11/03	0142	21.22	4.37
80	INDA43M	INDA43M	01/11/03	0213	21.21	4.37
09	INDB43M	INDB43M	01/11/03	0244	21.20	4.37
10	INDA53M	INDA53M	01/11/03	0315	21.22	4.37
11	INDB53M	INDB53M	01/11/03	0346	21.21	4.37
12	TOXAPH43M	TOXAPH43M	01/11/03	0417	21.21	4.37
13	CHLORO43M	CHLORO43M	01/11/03	0448	21.21	4.37
14	AR166013M	AR166013M	01/11/03	0519	21.23	4.37
15	AR166023M	AR166023M	01/11/03	055 0	21.21	4.37
16	AR166033M	AR166033M	01/11/03	0621	21.23	4.38
17	AR166043M	AR166043M	01/11/03	0652	21.22	4.37
18	AR166053M	AR166053M	01/11/03	0723	21.23	4.38
19	AR122143M	AR122143M	01/11/03	0754	21.22	4.37
20	AR123243M	AR123243M	01/11/03	0826	21.23	4.38
21 22	AR124243M	AR124243M	01/11/03	0857	21.22	4.37
	AR124843M	AR124843M	01/11/03	0928	21.23	4.38
23 24	AR125443M	AR125443M	01/11/03	0959	21.23	4.38
25	PIBLK3O	PIBLK30	01/13/03	1227	21.22	4.37
26	AR16603P INDAM3P	AR16603P	01/13/03	1258	21.23	4.37
27	INDBM3P	INDAM3P	01/13/03	1329	21.22	4.37
28	PEM3P	INDBM3P	01/13/03	1400	21.23	4.37
29	PBLKIO	PEM3P	01/13/03	1431	21.20	4.37
30	PLCSIQ	WG22370-1	01/13/03	1538	21.21	4.38
31	PCBLCSIQ	WG22370-2 WG22370-3	01/13/03	1606	21.21	4.36
32	GW-MW11MS	WG22370-3 WG22370-4	01/13/03	1637	21.22	4.37
يدر	OH PHATTING	110223/0-4	01/13/03	1708	21.21	4.37
1		·				

S1 = Decachlorobiphenyl (DC (+/- 0.07 MINUTES) TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

[#] Column used to flag retention time values with an asterisk.

^{*} Values outside of QC limits. ige 1 of 3

Lab Name: COMPUCHEM

Contract: 8081A

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: T2812

GC Column: CLPEST

ID: 0.53 (mm) Init. Calib. Date(s): 01/10/03 01/11/03

Instrument ID: VARIAN34

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	MEAN SURROGATE RT FROM INITIAL CALIBRATION S1: 21.22 TCX: 4.37					
	EPA MPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	TCX RT #
01 GW-M 02 GW-M 03 GW-M 04 GW-M 05 GW-M 06 GW-M 07 PIBI 08 AR16 09 INDA 10 INDA 11 ER-S 12 PIBI 13 AR16 14 INDA 15 INDA 15 INDA 16 PEM3 17 PBLK 18 PLCS 19 PCBL 20 GW-M 21 GW-M	M11 M07 JK3Q J603R JM3R M3R S-010803 JK3S M3T M3T M3T M3T W09 W05 W09 W05 W06 S-010903 K3U G03V M3V K4I J4J	WG22370-5 WG22370-6 WG22370-7 T2812-6 T2812-7 T2812-8 PIBLK3Q AR16603R INDAM3R INDBM3R T2812-9 PIBLK3S AR16603T INDAM3T INDBM3T PEM3T WG22378-1 WG22378-2 WG22378-3 T2812-11 T2812-12 T2812-13 T2812-14 PIBLK3U AR16603V INDAM3V INDBM3V PIBLK4I AR16604J INDAM4J INDBM4J PEM4J	01/13/03 01/13/03 01/13/03 01/13/03 01/13/03 01/13/03 01/13/03 01/13/03 01/13/03 01/13/03 01/13/03 01/14/03	====================================		4.37 4.37 4.37 4.37 4.37 4.38 4.38 4.38 4.38 4.38 4.38 4.38 4.38

S1 = Decachlorobiphenyl (DC (+/- 0.07 MINUTES) TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

[#] Column used to flag retention time values with an asterisk.
* Values outside of QC limits. ge 2 of 3

Lab Name: COMPUCHEM

Contract: 8081A

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: T2812

GC Column: CLPEST

ID: 0.53 (mm) Init. Calib. Date(s): 01/10/03 01/11/03

Instrument ID: VARIAN34

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	MEAN SURRO	GATE RT FROM TCX:	INITIAL CAL	IBRATION		
	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	TCX RT #
01 02 03 04 06 07 08 90 11 11 11 11 11 11 11 11 11 11 11 11 11	PBLKKF PLCSKF PCBLCSKF GW-MW03 PIBLK4K	1	01/20/03 01/20/03 01/20/03 01/20/03 01/20/03 01/20/03 01/20/03	ANALYZED ===================================	21.20 21.20 21.20 21.19 21.19 21.20 21.19 21.20	4.37 4.35 4.36 4.35 4.35 4.35 4.36 4.35
31 32						

QC LIMITS S1 = Decachlorobiphenyl (DC (+/-0.07 MINUTES) TCX = Tetrachloro-m-Xylene (+/-0.07 MINUTES)

[#] Column used to flag retention time values with an asterisk. * Values outside of QC limits.

Lab Name: COMPUCHEM

Contract: 8081A

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: T2812

GC Column: CLPEST2

ID: 0.53 (mm) Init. Calib. Date(s): 01/10/03 01/11/03

Instrument ID: VARIAN35

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO. SAMPLE ID SAMPLE ID PEM3M PEM3M INDB13M O1/10/03 2306 24.59 5.53 105 105 100		MEAN SURRO S1 : 24.59	GATE RT FROM TCX:	INITIAL CAL 5.55	IBRATION		
PEM3M		SAMPLE NO.	SAMPLE ID	ANALYZED	ANALYZED		
	02 03 04 05 06 07 08 09 11 12 13 14 15 16 17 18 19 20 21 22 22 23 24 25 26 27 28 29 31 31 31 31 31 31 31 31 31 31 31 31 31	PEM3M INDA13M INDB13M INDB23M INDB23M INDB33M INDB33M INDB43M INDB43M INDB53M INDB53M INDB53M TOXAPH43M CHLORO43M AR166013M AR166023M AR166043M AR166053M AR1122143M AR123243M AR123243M AR124243M AR124243M PIBLK3P AR16603P INDAM3P INDBM3P PEM3P PBLKIQ PLCSIQ PCBLCSIQ	PEM3M INDA13M INDB13M INDB23M INDB23M INDB33M INDB33M INDB43M INDB43M INDB53M INDB53M TOXAPH43M CHLORO43M AR166013M AR166023M AR166033M AR166043M AR122143M AR123243M AR123243M AR123243M AR123243M AR124243M PIBLK3P AR16603P INDBM3P	01/10/03 01/10/03 01/10/03 01/11/03	2235 2306 2337 0008 0039 0111 0142 0213 0244 0315 0346 0417 0448 0519 0550 0621 0652 0723 0754 0826 0857 0928 0959 1227 1258 1329 1400 1431 1538 1606 1637	24.59 24.60 24.59 24.59 24.59 24.59 24.59 24.59 24.60 24.61 24.60 24.60 24.61 24.60 24.61 24.60 24.61 24.60 24.61 24.62 24.61 24.62 24.61 24.62 24.61	5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.

S1 = Decachlorobiphenyl (DC (+/- 0.07 MINUTES) TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES) QC LIMITS

[#] Column used to flag retention time values with an asterisk.
* Values outside of QC limits. age 1 of 3

Lab Name: COMPUCHEM Contract: 8081A

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: T2812

GC Column: CLPEST2 ID: 0.53 (mm) Init. Calib. Date(s): 01/10/03 01/11/03

Instrument ID: VARIAN35

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIDRATION

	S1 : 24.59	GATE RT FROM : TCX:	INITIAL CALI 5.55	IBRATION		
	EPA	LAB	DATE	(MT)		
	SAMPLE NO.	SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	TCX "
	=======================================	==========	FEETEREE	ANALIZED	RT #	RT #
	1 GW-MW11MSD	WG22370-5	01/13/03	1739	24.61	5.55
	2 GW-MW11PCBMS		01/13/03	1810	24.60	5.54
	3 GW-MW11PCBMS		01/13/03	1841	24.61	5.54
0	1	T2812-6	01/13/03	1912	24.60	5.54
0		T2812-7	01/13/03	1943	24.60	5.54
	6 GW-MW07	T2812-8	01/13/03	2015	24.61	5.55
0	7 PIBLK3R	PIBLK3R	01/13/03	2117	24.61	5.55
	8 AR16603R	AR16603R	01/13/03	2148	24.61	5.55
	9 INDAM3R	INDAM3R	01/13/03	2219	24.61	5.55
	0 INDBM3R	INDBM3R	01/13/03	2250	24.61	5.55
	1 ER-SS-010803	T2812-9	01/13/03	2321	24.61	5.55
1:		PIBLK3T	01/14/03	0432	24.61	5.55
	3 AR16603T	AR16603T	01/14/03	0503	24.62	5.55
	4 INDAM3T	INDAM3T	01/14/03	0534	24.61	5.55
1:		INDBM3T	01/14/03	0605	24.62	5.56
1		PEM3T	01/14/03	0636	24.61	5.55
1'	.	WG22378-1	01/14/03	0707	24.61	5.55
18		WG22378-2	01/14/03	0738	24.61	5.55
	9 PCBLCSIW	WG22378-3	01/14/03	0809	24.60	5.55
	0 GW-MW09	T2812-11	01/14/03	0840	24.61	5.55
2.		T2812-12	01/14/03	0911	24.61	5.55
22		T2812-13	01/14/03	0942	24.61	5.55
23		T2812-14	01/14/03	1013	24.61	5.55
· 24		PIBLK3V	01/14/03	1115	24.61	5.55
25	5 AR16603V	AR16603V	01/14/03	1146	24.61	5.55
	INDAM3V	INDAM3V	01/14/03	1217	24.60	
27	7 INDBM3V	INDBM3V	01/14/03	1248	24.61	5.55
. 28		PIBLK4J	-721,05	1410	24.01	5.55
	20/03 0853	24.58	5.53			
	AR16604J	AR16604J	01/20/03	0924	24.59	5.53
30		INDAM4J	01/20/03	0955	24.58	5.53
31		INDBM4J	01/20/03	1026	24.59	5.53
32	PEM4J	PEM4J	01/20/03	1058	24.58	5.53
			, ,, =		21.50	دد.د
	- · · · · · · · · · · · · · · · · · · ·				I	I

S1 = Decachlorobiphenyl (DC (+/- 0.07 MINUTES) TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

[#] Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

age 2 of 3

Lab Name: COMPUCHEM

Contract: 8081A

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: T2812

GC Column: CLPEST2

ID: 0.53 (mm) Init. Calib. Date(s): 01/10/03 01/11/03

Instrument ID: VARIAN35

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	51 : 24.59	GATE RT FROM TCX:	INITIAL CAL	IBRATION		
	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	TCX RT #
01 02 03 04 05 06 07 08 09 10 11 11 11 11 11 11 11 11 11 11 11 11	PBLKKF PLCSKF PCBLCSKF GW-MW03 PIBLK4L		ANALYZED 01/20/03 01/20/03 01/20/03 01/20/03 01/20/03 01/20/03 01/20/03	ANALYZED ====================================	RT # ======= 24.58 24.57 24.59 24.57 24.58 24.57 24.58	RT # ======= 5.53 5.53 5.52 5.53 5.52 5.53 5.53
29 30 31 32						

S1 = Decachlorobiphenyl (DC (+/- 0.07 MINUTES) TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

[#] Column used to flag retention time values with an asterisk. * Values outside of QC limits.

a Division of Liberty Analytical Corp.

501 Madison Avenue Cary, NC 27513

SDG NARRATIVE SDG # T2812 CONTRACT # SW846

The indicated Sample Delivery Group (SDG) consisting of thirteen (13) water samples was received into the laboratory information management system (LIMS) on January 8, 9, 10, 15, 2003 intact and in good condition with Chain of Custody (COC) Records in order, unless otherwise noted in any attachments or Quality Assurance Notices. Sample ID's reported in this data package are noted by the receiving department on the COC if they differ from those listed by the samplers on the COC.

The samples were analyzed, in accordance with SW846 Statement of Work (SOW) update III for the metallic TAL list. .

SAMPLE IDs:

The cover page contained in this package lists the client ID's and the associated CompuChem numbers which are part of this SDG.

INSTRUMENTAL QUALITY CONTROL:

All calibration verification solutions (ICV & CCV), blanks (ICB, & CCB), and interference check samples (ICSA & ICSAB) associated with this data were confirmed to be within allowable limits.

SAMPLE PREPARATION QUALITY CONTROL:

The sample preparation procedure verifications (LCSW & PBW) were found to be within acceptable ranges and all field samples were prepared and analyzed within the contract specified holding times.

MATRIX RELATED QUALITY CONTROL:

The sample matrix spike, WG22521-1 (GW-MW11S) was found to be inside control limits for all requested analytes. The sample matrix spike duplicate, WG22521-2 (GW-MW11SD) was found to be inside control limits for all requested analytes.

SW-846 control limits for matrix spike recoveries are set at 75% to 125% of the analyte quantity added unless original sample concentrations exceed the true values of these "spikes" by a factor of four or more: in this case effected analytes are not flagged even if recoveries fall outside percentage recovery control limits.

The sample matrix duplicate, WG22521-3 (GW-MW11D) was outside control limits for zinc. The form 1 and form 6 are flagged with a "*" to indicate serial dilution results which were outside control limits.

A "*" indicates a non-homogeneous sample matrix in regard to the flagged analyte. This is normally the consequence of a relatively coarse texture or of a mixed-matrix in sediment samples.

SW846 control limits for duplicate determinations are +/- 20% Relative Percent Difference (RPD) for concentrations greater than or equal to five times the CRDL in both the original and duplicate samples, and +/- the CRDL for concentrations less than five times the CRDL. The RPD is not calculated if both the original and duplicate values fall below the IDL.

A five-fold serial dilution of sample, T2812-7 (GW-MW11L) was performed in accordance with requirements for ICP analysis.

The adjusted sample concentrations were outside control limits for barium which is flagged with an "E" on all associated form 1, the cover page, and form 9.

An "E" indicates that a chemical or physical interference effect was encountered during the analysis of the flagged analyte. As a result of this interference, all values for the analyte in the same matrix must be considered to be estimated quantities.

SW-846 control limits for serial dilution are defined as a deviation less than or equal to 10% in the dilution-adjusted concentrations from the original values for all analyte concentrations with values greater than fifty (50) times their respective Instrument Detection Limit (IDL) in the original sample.

The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Data Reviewer II January 27, 2003

2B-IN CRDL STANDARD FOR AA AND ICP

Contract:
No.: SAS No.: SDG No.: T2812
HIPUR
HIPUR

Concentration Units: ug/L

CRDL Standard for ICP Initial Final Analyte True Found ٩R True Found %R Found &R Aluminum 100.0 108.29 108.3 Antimony 10.0 9.87 98.7 Arsenic 12.13 121.3 10.0 Barium 10.0 10.51 105.1 Beryllium 5.0 5.07 101.4 Cadmium 5.0 5.24 104.8 Calcium 1000.0 1029.82 103.0 Chromium 5.0 4.96 99.2 Cobalt 5.0 4.64 92.8 Copper 5.0 3.08 61.6 Iron 100.0 95.76 95.8 Lead 3.0 3.72 124.0 Magnesium 1000.0 990.24 99.0 Manganese 10.0 9.93 99.3 Mercury 0.2 0.27 135.0 Nickel 5.0 4.84 96.8 Potassium 1000.0 1133.54 113.4 Selenium 5.0 8.19(163.8) Silver 5.0 4.64 92.8

2000.0

10.0

20.0

20.0

1547.95 77.4

9.95 99.5

19.16 95.8

19.81 99.0

Control Limits: no limits have been established by EPA at this time

Sodium

Zinc

Thallium

Vanadium

3 **BLANKS**

Lab	Name:	COMPUCHEM		Cont	ract:			
Lab	Code:	LIBRTY	Case No.:	SAS No.	:	SDG No.:	T2812	
Prep	aratio	on Blank Matr	ix (soil/water): WATER					

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte		Continuing Calibration Blank (ug/L) Blank									
	(ug/L)	C	1	С	2	С	3	С	220	С	M
Aluminum	11.8	U	14.1	В	11.8	U	11.8	U	11.800	U	P
Antimony	2.3	U	2.3	ַ	2.3	U	2.3	U	2.300		P
Arsenic	3.9	В	3.7	U	3.7	U	4.2	В	3.700	U	P
Barium	0.4	В	0.5	В	0.5	В	0.4	В	0.498	l B	IP
Beryllium	0.2	U	0.2	וט	0.2	Ū	0.2	U	0.200	U	P
Cadmium	0.4	Ū	0.4	י די	0.4	U	0.4	U	0.400	U	P
Calcium	7.9	U	13.1	В	7.9	U	7.9	Ū	7.900	U	l P
Chromium	0.6	U	0.6		0.6	U	0.6	U	0.600	Ü	P
Cobalt	0.5	U	0.5		0.5	U	0.5	U	0.500	U	l P
Copper	1.5	Ū	1.5	יט	1.5	U		U	1.500	U	P
Iron	8.7	U	8.7	_	8.7	U	8.7	U	8.700	U	P
Lead	1.1	U	1.3	_	1.1	ן ט	1.1	U	1.100	Ü	P
Magnesium	62.8	В	76.6	в	62.6	В	62.3	В	68.315	В	P
Manganese	0.2	Ū	0.2		0.2	U		U	0.200		P
Mercury	0.1	Ū	0.1	υ	0.1	ᄞ	0.1	Ū	0.112	В	CV
Nickel	1.0	U	1.0	υÌ	1.0	υi	1,0	U	1.000	U	P
Potassium	74.8	В	79.1		102.2	B	<u>-</u>	В	68.400	- U	P
Selenium	2.6	U	2.6		2.6	ᇹ	2.6	U	2.600	U	P
Silver	0.7	U	0.7		0.7	ᄞ		Ü	0.700	U	P
Sodium	99.3	U	-111.2		99.3	וט	99.3	U	99.300	Ū	P
Thallium	4.4	<u></u> ט	4.4	_	4.4	U		U	4.400	U	P
Vanadium	0.4	ָ ט	0.4		0.4	UI	0.4	U	<u> </u>	Ü	P
Zinc	1.0	<u></u> ד	1.0		1.0	미	1.0		0.400	В	P

3

BLANKS

Lab Name: COMPUCHEM	Contract:
Lab Code: LIBRTY Case No.: S.	AS No.: SDG No.: <u>T2812</u>
Preparation Blank Matrix (soil/water): WATER	
Preparation Blank Concentration Units (ug/L or	mg/kg): UG/L

Analyte	Initial Calib. Blank	Calib. Blank Continuing Calibration Preparation Blank Blank							Preparation Blank			
	(ug/L)	С	γ	C	15	С	\$6		c		С	M
Aluminum	ļ	_	11.8			Ш		l_				P
Antimony			2.3			Ш		<u> </u>				P
Arsenic	<u> </u>		3.7			\Box		{]		P
Barium			0.4	В		Ĺ		T		1		P
Beryllium			0.2	U						l		P
Cadmium			0.4	ע								P
Calcium			7.9	U		i						P
Chromium	·		0.6					Ť		1		P
Cobalt			0.5					Ť				P
Copper	1	Ì	1.5					Ť				P
Iron			8.7					-i				P
Lead			1.1			H		一				P
Magnesium	1		61.8				-	亡				P
Manganese			0.2			\vdash		i		<u> </u>		P
Mercury	Ì		0.1		0.1	В	0.	1 1	В			CV
Nickel	İ	Ti	1.0			<u>-</u>		-i	1			P
Potassium	Ì	i i	183.3				· · · · · · · · · · · · · · · · · · ·	÷	1	<u> </u>		P
Selenium	 	1 1	2.6					\dashv		<u> </u>		P
Silver	 	1	0.7			<u>-</u>	-	\dashv			 	P
Sodium	i	1	99.3							<u> </u>	1	P
Thallium	<u> </u>	11	4.4			1		- 	\dashv	<u> </u>	<u></u>	P
Vanadium	<u> </u>		0.4	_				뉴				P
Zinc	†	1-1	1.0			-						P

3

BLANKS

Lab Name: COMPUC	HEM			Con	tract: _						
Lab Code: <u>LIBRT</u>	Y Cas	e No.:		SAS No	:		SDG	No.;	T2812		
Preparation Blan Preparation Blan					g): <u>UG/</u>]	- -d					
Analyte	Initial Calib. Blank (ug/L)	С	17 c	Continuing Blank		ation 3	c	Pre Bla	paration nk	c	м
Mercury		1	0.1	J 0	1 U			ii 		1	CV

6 DUPLICATES

SAMPLE NO.

GW-MW11D

Lab Name: COMPUCHEM	Contract:	
Lab Code: LIBRTY Case No.: _	SAS No.:	SDG No.: T2812
Matrix (soil/water): WATER	Level (low/med): LC	W W
% Solids for Sample: 0.0	% Solids for Duplicate:	0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control							
	Limit	Sample (S)	С	Duplicate (D)	С	RPD	Q	М
Aluminum	100.0	167.6799		176.9286		5.4		F
Antimony		4.5761	В	3.0762	В	39.2		F
Arsenic		4.7878	В	3.7000	บ	200.0	i i	P
Barium	10.0	13.0914		12.9325		1.2		P
Beryllium		0.2000	U	0.2000	U			P
Cadmium		0.4000	Ü	0.4000	υ			P
Calcium		23955.1895		23724.9004		1.0		P
Chromium		2.1911	В	2.1898	В	0.1	1	P
Cobalt		0.5000	U	0.5000	U			P
Copper		1.5000	ŭ	1.9616	В	200.0		F
Iron		5128.3569		5171.8521		0.8		P
Lead		1.1000	Ū	1.9749	В	200.0		P
Magnesium	1000.0	2970.2439		2943.1299		0.9		P
Manganese		164.6482		163.0096		1.0		P
Mercury		0.1000	U	0.1203	В	200.0		C
Nickel		1.0000	ט	1.0000	U		1	P
Potassium	1000.0	2265.8760		2272.4089		0.3	 	P
Selenium		3.5084	В	3.2860	B	6.5	<u> </u>	P
Silver		0.7000	υ	0.7000		1	 	₽
Sodium	2000.0	4008.1709		4028.3711		0.5		P
Thallium		4.4000	υ	4.4000	u l			P
Vanadium		2.3270	В	2.1870		6.2		P
Zinc	20.0	6.7726	В	36.1501	_	136.9	,	P

SW840 MILIALS

14

Lab Name: COMPUCHEM		_ Contract:					
Lab Code:LIBRTY	Case No.:	SAS No.:	SDG No.: T2812				
Instrument ID Number: <u>V3</u>		Method: CV					
Start Date: <u>1/23/03</u>		End Date: 1/23/03					

EPA			<u> </u>										7	\na	ly	te	s										
Sample	D/F	Time	% R	A	s	A	В	В	c	С	С	C	С			м		Н	N	ĸ	e	A	N	Т	77	z	С
No.				L	В	s	A		D	A		0				G		G	I	IX.	E		A	L	٧	N	N
S0	1.00	1129			Н				┢			<u> </u>					H	х			_		!				
S0.2	1.00	1131					i		i	İΠ						<u> </u>	H	х			<u></u>						<u> </u>
S0.5	1.00	1133																х	Н		<u> </u>						\vdash
S1	1.00	1135						<u> </u>	<u> </u>	П				Н			1	х			L	<u> </u>					_
85	1.00	1138					İ				_			_				X		_	<u> </u>	<u> </u>	Н				_
S10	1.00	1140								H								Х		_					_	_	_
ICV	1.00	1143								Н						-	H	Х		_					-	⊣	
ICB	1.00	1145							_			i		_				Х	-	-		 	H	- 	\dashv	긤	_
CRA	1.00	1147																х		4	_			╌┤	닉		
CCV	1.00	1149				Ī									ᅥ			x	-		_	—	\dashv	ᅥ	ᅥ		_
CCB	1.00	1152															-	X			_				+	-	—
ZZZZZZ	1.00	1154		i		1	\dashv					1	1				+		+		-			-		 	—
ZZZZZZ	1.00	1156			_	T	7	_		- i		<u> </u>	_	\dashv					ᆉ	4					\dashv	\dashv	
ZZZZZZ	1.00	1159			T	1		寸		-	1		7	\dashv		-	\dashv		+		⊣		_[-	ᅥ	-	—
ZZZZZZ	1.00	1201		\neg		i	{			<u>_</u>				ᅥ	+	-	+	\dashv	\dashv						-	+	
ZZZZZZ	1.00	1203		1		i	7	T	_	1	-				\dashv	_	\dashv	\dashv	-	_	4			\dashv	\dashv	-+	
ZZZZZZ	1.00	1205		1		-	-†	ᅥ		寸			\dashv	-+				ᆛ	-	_	-	\dashv	-	+		+	_
ZZZZZZ	1.00	1207		寸	†		7	寸	1	-	긤	1		\dashv	 			ᆛ	+	+	-			_	+	+	—
22222	1.00	1210			7	 †	寸		_			-	\dashv	\dashv	\dashv	\dashv	-+	+	-+	ᆛ	_	-		-	-+	+	
ZZZZZZ	1.00	1212		1	1	寸	十	_	_	+	-	-	\dashv	+	ᆉ	-+	\dashv	+	-+	ᆛ	\dashv		-	+	+	+	_
ZZZZZZ	1.00	1214		\dashv	+	寸	十	-†	ᅥ	╁	-	ᆉ	+	-	\dashv	\dashv	+	+	\dashv	∔		ᆛ		+	+	\dashv	_
CCV	1.00	1216		寸	Ť	7	- †	_	+		+	+	+	ᆉ	- †	+		x	+	+	+	\dashv	\dashv	-+	\dashv	ᆛ	
ССВ	1.00	1219		十	٦t		\dashv	十	<u> </u>		+	-+	┪	╁	\dashv	┥	+	$\frac{2}{x}$	+	+	-	\dashv	ᆛ	\dashv	4	\dashv	_
ZZZZZZ	1.00	1221		寸	+	+	\dashv	_	_ <u> </u>	+	+	十	┽	ᅥ	\dashv	+	+	귀	-+	-					-		
ZZZZZZ	1.00	1223		+	\dashv	ᆉ	\dashv	十	ᆉ	十		+	-	+	+	\dashv	\dashv	+	+	ᆛ	4	-	4	\dashv	+	+	_
ZZZZZZ	1.00	1225		+	\dashv	ᆉ	+	-		+	-+	+	+	\dashv	+	\dashv	\dashv	+	+	-	4		-	-		4	:
ZZZZZZ	1.00	1227		十	十	十	_	+	+	+	1	+	\dashv	+	ᆉ	井	+			+	4	\dashv	4	4	4	4	_ !
ZZZZZZ	1.00	1230		十	\dashv	\dashv	-+	-	-	+	+	井	+	+		+	+	+	+	<u>-</u>	-	-			4	4	!
ZZZZZZ		1232		\dashv	\dashv	- +	+	\dashv	十	-	+	+	井	\dashv	+	+		+	-	÷	+		4	_	+	4	_!
ZZZZZZ		1234	<u>-</u>	十	+	十	ᆉ	+	-	十	ᅷ	十	+	+	╌┼	+	+	+	-	+		+	4	4	4	4	_ !
ZZZZZZ	1.00	1236		+	+	十	+	+	十		╁	+	+	+	+		+	+	+	+	-	4	+		+	+	_
ZZZZZZ	1.00			+	+	1	\dashv	ᆉ	ᆛ	+	+	-	+	+	+	+	+		+	4	-	4	4	4	-	4	
ZZZZZZ	1.00			+	十	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	_
ccv	1.00			十	十		+	\dashv	十	+	+	<u> </u>	+	+	+		+	x	+	+	4	+	+	4	\perp	+	_¦
CCB	1.00			\dagger	+	+	+	+	+	<u> </u>	+	+	+	+	+	-		<u>^ </u> x	+	+	+	_	+	+	4-	+	_!
ZZZZZZ	1.00	<u>-</u>		+	+	+	+	+		+	╁	+	+	+	+	+	+	4	+	+	+	+	4.	+	+	_	
ZZZZZZ	1.00			-	+	+		\dashv	╁		+	_ <u> </u>	+	+	+	+	+	+	- -	+	+	+		+	+	+	_
ZZZZZZ	1.00		 -	+	+	+	+	+	+	+	+	<u> </u>	+	+	+	+	+	+	 -	-ļ-	+	+	+	+	+	+	_
				_ــــــــــــــــــــــــــــــــــــــ							ㅗ			\perp		1	丄		\perp	\perp			3 b	丄	┸		_1

SW840 WILLALS

14

Lab Name: COMPUCHEM		Contract:			
Lab Code: <u>LIBRTY</u>	Case No.:	SAS No.:		SDG No.: T2812	
Instrument ID Number: <u>V3</u>		Method:	CV		
Start Date: 1/23/03		End Date:	1/23/03		

EPA				Γ									P	lna	ly	te											
Sample	D/F	Time	% R	A	S	A	В	В	C	С	С	С	С	F	P	М	М	Н	N	ĸ	s	A	N	T	v	z	С
No.				L	В	s		E		A						G		G	I		E	G	А			N	
ZZZZZZ	1.00	1254			_	-	\vdash	_					П								Ė	<u> </u>	 	 	 		┢
PBW	1.00	1256					Ī			П								x			i -	 			 	1	<u> </u>
LCSW	1.00	1259					İ	Ì		П								х		_	<u> </u>		Г	i		ļ	
GW-MW11	1.00	1301					Ī											х					<u> </u>		i	<u> </u>	一
GW-MW11D	1.00	1303																X			ļ	1	-	<u> </u>		-	<u> </u>
GW-MW11S	1.00	1305					İ	<u> </u>		П								х			<u> </u>	_			Т		一
GW-MW11SD	1.00	1307					i			П								x		_	i	-					一
CCV	1.00	1310					Ī	l		П		1	П				T	х			 			_		┢┈	1
CCB	1.00	1312														_		х			<u> </u> -	<u> </u>	_				\vdash
22222	1.00	1314								П										_	L 	-					一
22222	1.00	1316		П			<u> </u>			 							\dashv	-	Н		 	\vdash	H	L	-	٣.	-
GW-MW02-D	1.00	1319					<u> </u>					_					\dashv	х			<u> </u>	╴				L 	-
GW-MW08	1.00	1321					l							i	-	_		х			_	-	-			Ι	\vdash
GW-MW10	1.00	1323																х		_	 					-	\vdash
GW-MW07	1.00	1325	•	П								_			7			Х		_		ļ			_		-
ER-SS-010803	1.00	1327	-	П							i					_		Х	_		L						\vdash
GW-MW09	1.00	1330	-						ن		-	l	ㅓ		_	_	-	X				_					-
GW-MW05	1.00	1332				_				H	Ti-	<u>_</u>		_		-	\dashv	x	1	ل			_				
GW-MW06	1.00	1334			\exists					1	一	<u>1</u> 	_	一		\dashv	\dashv	x	-								<u> </u>
CCV	1.00	1336	-	H	T					1	ᅥ	-1	1			-	+	x		_						_	
ССВ	1.00	1339	-							1	-		\dashv	+	-	-	\dashv	x		႕				_	\dashv		<u> </u>
ER-SS-010903	1.00	1341			1	1			_	_	ᅥ	l	┪		┪	ᅥ	+	X	-		_						_
GW-MW03	1.00	1343			-	_ 1	_			-	-	\dashv	+	-	┪	_	+	x			_		_		긕		_
22222	1.00	1345		H	一	_			_		ᅥ	-	-	-1	ᅡ				긤				_	긕	_		
ZZZZZZ	1.00	1348		Н			-1		ᅥ	-	ᅥ		+	-	-	ᅥ	+	┥	ᅥ	ᆛ			¦	\dashv	-		
ZZZZZZ	1.00	1350								ᆛ	ᅱ		\dashv	┪		긤	4	_			_				4	-	—
ZZZZZZ	1.00	1352			-		\dashv		_				-	\dashv	┪	+	ᆉ	-	-	ᆛ	_		_	ᆛ	ᅥ	_	
ZZZZZZ	1.00	1354		-			~		1	<u>-</u>		-	+	1		\dashv	ᆉ	-	ᅥ				_		\dashv	닉	-
22222	1.00	1357		\vdash	-	寸		러	_		-	+	+	+	ᅱ	-	+	\dashv	ᅥ	닉		Н	-		\dashv	-	
ZZZZZZ	1.00	1359			\dashv			_	{	ᅱ		+	十	+	\dashv	ᅥ	-+	-		-	\dashv	-	ᆛ	┥	닊	_	!
22222Z	1.00								4	ᆉ	\dashv	+	-+	\dashv	+	\dashv	\dashv		\dashv	_ 		4	닉	ᅱ			
CCV	· · · · · · · · · · · · · · · · · · ·	1403				-		l	4	+	+	ᆛ	\dashv	+	\dashv		\dashv	x	ᆛ	4		_	4		ᆛ	_	_!
CCB		1406		\dashv	\dashv	ᆛ	ᅱ				-	+	\dashv	+			+	$\frac{2}{x}$	+	4		\dashv		-	\dashv	\dashv	
ZZZZZZ	1.00			+	-	ᆉ	\dashv		 	+	+	-+	\dashv	\dashv	\dashv	┥	+	^	-	ᆛ		닉	ᆛ	-	ᆛ	-	-¦
ZZZZZZ	1.00			\dashv	- 1	ᆉ	-		_	井	-+	+	╅	\dashv	-	-	+	-	\dashv	4	\dashv	-				-	_¦
ZZZZZZ	1.00			+	+	-+	-		-	ᆉ	+	+	-+	+	_		+	+	-+	ᆛ	_		-	긖		-	
ZZZZZZ	1.00			+	\dashv	$-\frac{1}{1}$	\dashv		_	ᆉ	-	+	+	-+	+	+	\dashv	\dashv	+	4	-	\dashv	ᆛ	\dashv		-	
ZZZZZZ	1.00			十	ᆉ		-+		+	+	+	+	\dashv	\dashv	+	+	+	_	+			_	4	ᅴ	4	_	_!

14

Lab Name: COMPUCHEM		Contract:			
Lab Code: LIBRTY	Case No.:	SAS No.:		SDG No.: T2812	
Instrument ID Number: V3		Method:	CV		
Start Date: 1/23/03		End Date	1/22/02		

EPA											*		F	\na	lу	te	s										
Sample No.	D/F	Time	% R	A	S B			B		C A		С 0				M G	M N	H G	N		S E	A G	N A			Z N	1
ZZZZZZ	1.00	1419		-	-		-	-			_	 								_	-	-				$\ddot{\dashv}$	Ë
ZZZZZZ		1422				1	 			Н	-		Н	Н	_					L	_	-	Н		_		
222222	1.00	1424				┢			Н							_	Н		\vdash		ļ	-			{	ᆜ	
ZZZZZZ	1.00	1426							Н			┝		-	_	نــــــــــــــــــــــــــــــــــــــ		Н	Щ			_			ᅱ	\dashv	\vdash
ZZZZZZ	1.00	1428		Н					Н	_{	_	Н	\dashv			_	_	Н			L	_		_		긕	<u> </u>
CCV	1.00	1431		Н					+	_		Н	Н	ᅥ	ᆛ	-		X	\Box	4	L				ᆛ	ᆛ	—
CCB	1.00	1433			_							Н	Н	ᅱ		-		$\frac{\hat{x}}{x}$	-				_		ᆛ	\dashv	_
GW-MW01	1.00	1435							4	- 		Н				ᅱ	\dashv	^ X		ᆛ	-				4	ᆛ	—
GW-MW02	 	1437						-	+				-1		\dashv	\dashv		$\frac{1}{x}$	-		_		4		4	4	_
ZZZZZZ	1.00	1440							ᆛ		\dashv		+		ᆛ	┥	ᆉ	긕	_	_					4	4	_
ZZZZZZ		1442			_		-		ᅥ	+	-	_	\dashv	-	ᅥ	-	ᆛ	-	\dashv	_¦			4	_	4	ᆛ	
ZZZZZZ		1444						닉	4	+		- 1	\dashv	\dashv		ᆛ		ᆛ	-1		닉		<u></u>		-		
ZZZZZZ	1.00	1447			러	<u></u>	ᅱ			-+	1		1	ᆉ			-	-	-	4	4	_	¦			4	
ZZZZZZ	1.00	1449					-	ᅥ	-	-+	ᅥ		+	-+	\dashv		\dashv	-+	4	긕		-			4	4	_
ZZZZZZ	1.00			1				\dashv	+	\dashv	\dashv	-+	\dashv	-+	\dashv	\dashv	\dashv		4	-4		-	4		4	4	
222722	1.00	1453			-				¦	+	{	_	+	-	+	-	+	4	_	4	_	_	4	-	_	\dashv	_
ZZZZZZ		1456		-	+		\dashv	+	+	+	+	_	\dashv	+		\dashv	\dashv	-	4	4	\dashv		-		\downarrow	4	_
ccv	1.00	1458		-		극	ᅱ	-+		+	-+		+	+	+	-	-	Д хl	-	4	_	\dashv	4	-	4	丰	_
CCB	-	1500		\dashv				+	+		\dashv	- +	-+	-1	4	-	4	X	_	ļ	4	_	4	4	_	4	

14

Lab Name: COMPUCHEM		Contract:	
Lab Code: LIBRTY	Case No.:	SAS No.:	SDG No.: <u>T2812</u>
Instrument ID Number: P4		Method: P	
Start Date: <u>1/24/03</u>		End Date: 1/24/03	

EPA	T _ ,_ I		 -										P	ına	ly	te											
Sample	D/F	Time	% R	A	S	A	В	В	C	С	С	С	С	F	P	M	М	Н	N	к	S	A	N	T	v	Z	С
No.				L	В	s	A	Ē	D	A	R	0	ש	E	В	G	N	G	I		E	G	A	L	ŀ	N	И
s0	1.00	1057		x	x	х	x	х	х	x	Х	x	х	х	Х	х	х		Х	х	X	x	X	x	İx	х	
S	1.00	1105		Î		İ	ĺ	İ	x	ÌΤ	x	•	х		Х				х			х	\vdash	x	1	х	i i
s	1.00	1113		х			i -	Г	Г	x				х		Х					 	1		-	1		_ i
S	1.00	1119		Ì		x	x	x	Ι_	Ħ		х					х						H		x	П	;
S	1.00	1125					i	Ì	 	Π	İ						П			х	L		x	<u> </u>			-i
S	1.00	1131			х		Ī		Т	î	i		П								<u> </u>		1		m	П	i
ICV	1.00	1136		х			х	х	х	İх	x	х	х	х		x	X		X	х	<u> </u>		х	i	х	х	i
ICV	1.00	1144		П		Ì	Ī			Ī	Π											<u> </u>					_i
ICV	1.00	1153			х	х	Ī			İ					X						х	х		x		П	_ i
ICB	1.00	1201		х	х	х	X	x	x	x	х	х	х	х	х	x	х		x	X	x	x	x	х	x	x	i
ZZZZZZ	1.00	1209					1	Ī	Г	i	<u> </u>											_					i
ICSA	1.00	1217		х	х	х	x	x	х	x	x	х	х	х	x	x	х		х	Х	х	х	Х	х	x	х	_ i
ICSAB	1.00	1229	-	х	Х	х	x	х	х	х	х				x		х		х	_		х	х		х	x	j
ccvl	1.00	1237		х	х	х	х	х	х	x	х	•	_		Х	х	Х		х	-	_		х	_	х	x	
CCB	1.00	1245		X	Х	х	Х	х	х	x	х	х		х	X	х	х		Х	х	х	х	х	L	х	х	_ i
LRS	1.00	1254		х	Х	х	х	X	x	x	Х		_	х	Х	х	х		х		х	•	х		х	х	;
PBW	1.00	1302		х	х	х	x	х	х	x	x		_	х	Х	\mathbf{x}	х		х		х	<u>. </u>	x		х	х	-i
LCSW	1.00	1309		х	х	х	x	х	х	x	х	х	х		x	x	х		x			х	х	х	х	x	-¦
GW-MW11	1.00	1317		х	х	х	x	x	х	х	х	_	х		х	x	х	_	х			х	х	_	X	х	-;
GW-MW11S	1.00	1324		х	х	x	х	x	x	<u> </u>	х			х		i	x	 	х		х			X	х	х	-¦
GW-MW11SD	1.00	1332		х	х	х	х	х	х		х		х		х	1	x		x		х	x		X	х	х	- i
GW-MW11D	1.00	1340		х	х	х	х	х	x	x	x		х		х	x	x		\mathbf{x}	x	_		х	-	x	х	-;
GW-MW11L	5.00	1347		х	х	х	х	х	Х	х	X		_	х	х	х	x	7	х	_			x		х	x	-i
GW-MW11A	1.00	1355															7	_	ᅥ						-		-¦
GW-MW01	1.00	1402		х	х	х	х	х	х	x	x	х	х	\mathbf{x}	х	x	х		х	χ	x	х	х	x	x	х	i
CCV Z	1.00	1410		х	х	х	х	х	х		_	х	_	_			x		х				х			x	-i
ССВ	1.00	1417		х	х	х	х	х	_		x	_	x	+	х	_	x		x			l	x		x	х	-¦
GW-MW02	1.00	1425		Х	x	х	х	х	х	x	х	_	Х		х	-	x	-	x		_		х		х	х	-i
GW-MW02-D	1.00	1433		х	х	х	х	х	_		х		х		x	_	x	-	x			_	x	-	X	х	-i
GW-MW08	1.00	1440		х	х	х	х	х	х	х	х		х	_	х		x	-	х				x		x	х	-i
GW-MW10	1.00	1448		х	х	Х	х	х	х	х					х	x	\mathbf{x}		x				х	_		х	−i
GW-MW07	1.00	1455		х	х	x	х	х	x	х	х	x	х	х	х	x	x		-	_			х		_	_	−i
ER-SS-010803	1.00	1503		х	х	х	х	x									x	-				_	x	_	-	-+	-¦
GW-MW09	1.00	1510		х	х	Х											x						x	_	x	x	-i
GW-MW05	1.00	1518		х	x			х	_			x	 :			-	x	-+	x		_	_	х	_	x	х	-¦
GW-MW06	1.00	1525		х	x			_	_	_	х		х	\rightarrow	x		x	7	x		_	_	Х		_	х	-i
ER-SS-010903	1.00	1533		х	x		-				_	_	\rightarrow	x			\mathbf{x}	-+	x		_		X		x	X	-¦
ccv 3	1.00	1541		х	x	x	x	x	X			_	\rightarrow	x	_		x	┪	x		_		A		_	x	-;

14

ANALYSIS RUN LOG

Lab Name: COMPUCHEM							_	. (Cor	ıtr	ac	t:															
Lab Code: LIBRTY		Cas	e No.:						SAS	5 N	io,	:						SDO	G I	Vο		r28	312				
Instrument ID Numbe	r: <u>P4</u>							. 1	1e t	ho	d:		P								•						
Start Date: <u>1/24/03</u>	3							I	Enc	ı D	at	e:	1,	/24	/0	3			_								
EPA													1	\ne	ıly	te	5							.			
Sample No.	D/F	Time	₹ R	A	S	A S	1	B		C	_	C	_	F	P	М	М	,	N	ĸ			N		V		С
CCB	1.00	1548		x	х		L.	•	1		<u> </u>	<u> </u>		<u> </u>	<u>L</u>	1	N		1 -		E	G	A	<u>1 </u>		И	N
GW-MW03	1.00			х	_		X	_		_			_	X	_		X	-	X					Х			_
ZZZZZZ	1.00	1603				-	-	^	^		^	X	X	х	X	Ľ.	X		Х	X	X	X	Х	Х	х	X	_ !
ZZZZZZ	1.00	1611							\vdash		-		_	_	-	_	Щ				L_	_	Ш		Ш	Ш	_!
ZZZZZZ	1.00	1618			_	_			Н	Н			-			L.	Ц	Ц		Щ	<u> </u>	_	Щ		\perp	_	_!
ZZZZZZ	1.00	1626		\dashv	-			_	Н		-			_	_			_	L				Щ		_	4	_!
ZZZZZZ	1.00	1634		\dashv	_					+			\dashv	\dashv	-	_					Щ		Щ		_	4	_!
ZZZZZZ	1.00	1641		┪	\dashv	ᅥ		-		-	-		-{	\dashv	_	_	-		_	긕	_		ᆜ	_	4	4	_
ZZZZZZ	5.00	1649		\dashv	_		ᅱ	긤			러	ᆛ	\dashv	ᆛ	-		-4			_	4		4	_		4	_!

1.00 1656

1.00 1704

1.00 1711

1.00 1719

ZZZZZZ

ZZZZZZ

CCV iL

CCB

| x | x | x | x | x | x | x

| x | x | x | x | x | x | x

a Division of Liberty Analytical Corp.

501 Madison Avenue Cary, NC 27513

SDG NARRATIVE SDG # **7**2812 CONTRACT # SW846

4/1/03

The indicated Sample Delivery Group (SDG) consisting of thirteen (13) water samples was received into the laboratory information management system (LIMS) on January 8, 9, 10, 15, 2003 intact and in good condition with Chain of Custody (COC) Records in order, unless otherwise noted in any attachments or Quality Assurance Notices. Sample ID's reported in this data package are noted by the receiving department on the COC if they differ from those listed by the samplers on the COC.

The samples were analyzed, in accordance with SW846 Statement of Work (SOW) update III for the dissolved metallic TAL list.

SAMPLE IDs:

The cover page contained in this package lists the client ID's and the associated CompuChem numbers which are part of this SDG.

INSTRUMENTAL QUALITY CONTROL:

All calibration verification solutions (ICV & CCV), blanks (ICB, & CCB), and interference check samples (ICSA & ICSAB) associated with this data were confirmed to be within allowable limits

SAMPLE PREPARATION QUALITY CONTROL:

The sample preparation procedure verifications (LCSW & PBW) were found to be within acceptable ranges and all field samples were prepared and analyzed within the contract specified holding times.

MATRIX RELATED QUALITY CONTROL:

The sample matrix spike, WG22522-1 (GW-MW11S) was found to be outside control limits for silver. The sample matrix spike duplicate, WG22522-2 (GW-MW11SD) was found to be outside control limits for silver. The reported concentration for this analyte is flagged with an "N" on all associated Form 1 and on Form 5a

An "N" indicates a matrix-related interference in the sample preparation procedure &/or analysis for the flagged analyte. This is normally the consequence of a relatively high anionic content in the sample or (for some sediments) an inconsistent sample matrix relative to that analyte.

Post-digestion spikes are mandatory for analytes demonstrating unsatisfactory matrix spike recoveries during ICP analysis (excluding silver).

SW-846 control limits for matrix spike recoveries are set at 75% to 125% of the analyte quantity added unless original sample concentrations exceed the true values of these "spikes" by a factor of four or more; in this case effected analytes are not flagged even if recoveries fall outside percentage recovery control limits.

The sample matrix duplicate, WG22522-3 (GW-MW11D) was inside control limits for all requested analytes.

SW846 control limits for duplicate determinations are +/- 20% Relative Percent Difference (RPD) for concentrations greater than or equal to five times the CRDL in both the original and duplicate samples, and +/- the CRDL for concentrations less than five times the CRDL. The RPD is not calculated if both the original and duplicate values fall below the IDL.

A five-fold serial dilution of sample, U2812-6 (GW-MW11L) was performed in accordance with requirements for ICP analysis.

The adjusted sample concentrations were inside control limits for all requested analytes.

SW-846 control limits for serial dilution are defined as a deviation less than or equal to 10% in the dilution-adjusted concentrations from the original values for all analyte concentrations with values greater than fifty (50) times their respective Instrument Detection Limit (IDL) in the original sample.

The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Data Reviewer II January 28, 2003

SW840 MILIALS

2B-IN CRDL STANDARD FOR AA AND ICP

Lab Name: COMPUCHEM			Contract:			
Lab Code: <u>LIBRTY</u>	Case 1	No.:	SAS No.:		SDG No.:	U2812
AA CRDL Standard Sou.	rce:	HIPUR				
ICP CRDL Standard So	urce:	HIPUR				
		Co	ngont-ntian II	-14- /7		

Analyte				Ini	CRDL Standard f	or ICP Fina	.1
	True	Found	%R	True	Found &R	Found	%R
Aluminum				100.0	108.29 108.3		
Antimony				10.0	9.87 98.7		
Arsenic				10.0	12.13(121.3)		
Barium				10.0	10.51 105.1		<u> </u>
Beryllium				5.0	5.07 101.4		
Cadmium		1		5.0	5.24 104.8	~-	<u> </u>
Calcium				1000.0	1029.82 103.0		<u> </u>
Chromium				5.0	4.96 99.2		<u> </u>
Cobalt				5.0	4.64 92.8		
Copper		1		5.0	3.08 61.6		1
Iron		-		100.0	95.76 95.8		
Lead				3.0	3.72 124.0		-
Magnesium				1000.0			
Manganese				10.0	990.24 99.0		
Mercury	0.2	0.27	135.0	10.0	9.93 99.3		
Nickel			133.0	5.0	1 04 05 0		
Potassium		<u> </u>		1000.0	4.84 96.8		
Selenium				5.0	1133.54(113.4)		
Silver				5.0	8.19(163.8)		
Sodium				2000.0	4.64 92.8		
Thallium				10.0	1547.95 77.4		
Vanadium		·	-		9.95 99.5		
Zinc	<u></u>	<u></u>		20.0	19.16 95.8 19.81 99.0		

Control Limits: no limits have been established by EPA at this time

3 **BLANKS**

Lab Name: COMPUCHEM	Contract:
Lab Code: LIBRTY Case No.:	SAS No.: SDG No.: U2812
Preparation Blank Matrix (soil/water): WATER	

Preparation Blank Concentration Units (ug/L or mg/kg): $\underline{\text{UG/L}}$

	Initial Calib.			C	ontinuing C Blank (u				Preparation		
Analyte	Blank (ug/L)	С	1	С	2	g/i	3	_	Blank	_	M
Aluminum	11.8	U	14.1	Bi	11.8			C I U	<u> </u>	C	<u> </u>
Antimony	2.3	U	2.3		2.3	لئىل		U _	11.800	U	P
Arsenic	3.9	В	3.7	-	3.7			В	2.300	U	P
Barium	0.4	<u> </u>	0.5		0.5	تنا		-	3.700	U	P
Beryllium	0.2	Щ.	0.2		0.2	ו ו	0.4	В	0.408	В	P
Cadmium	0.4		0.4		0.2	0		U	0.200	_U	P
Calcium	7.9		,			ــــــــــــــــــــــــــــــــــــــ	0.4	Ŭ	0.400	U	P
Chromium	0.6		13.1		7.9	\perp	7.9	U	7.900	U	P
Cobalt	0.5		0.6		0.6	U	0.6	U	0.600	U	P
Copper	1.5		0.5		0.5	U	0.5	U	0.500	U	P
Iron	8.7		1.5		1.5	U	1.5	U	1.500	U	P
Lead	1.1		8.7		8.7		8.7	U	8.700	U	P
Magnesium	62.8		1.3		1.1	U	1.1	U	1.100	U	P
Manganese	0.2		76.6		62.6	В	62.3	В	59.600	В	P
Mercury	 	ָ ט		U	0.2	U	0.2	U	0.200	U	P
Nickel	 		0.1	\rightarrow	0.1	U	0.1	U	0.113	В	CV
Potassium	1.0	!	1.0		1.0	U	1.0	U	1.000	U	Р
Selenium			79.1	щ.	102.2	В	182.1	В	169.631	В	P
Silver	2.6	<u> </u>	2.6		2.6	U	2.6	U	2.600	U	P
Sodium	0.7	<u> </u>	0.7		0.7		0.7	U	0.700	U	Р
Thallium	99.3		-111.2		99.3	U	99.3	U	99.300	U	P
Vanadium	4.4		4.4		4.4	U	4.4	U	4.400	U	P
Zinc	0.4		0.4		0.4	U	0.4	U	0.400	U	P
4111G	1.0	<u>u </u>	1.0	U	1.0	U	1.0	U	1.123	В	P

3

BLANKS

Lab Name: COMPUCHEM	_ Contract:
Lab Code: LIBRTY Case No.:	SAS No.: SDG No.: U2812
Preparation Blank Matrix (soil/water): WATER	<u> </u>
Preparation Blank Concentration Units (ug/L or	r mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	С	4	Continuing Continuing		ration	~	Preparation Blank C	м
Aluminum	<u> </u>	\top	11.8				C	1	
Antimony	 	1 1	2.3 U				<u> </u>		l P
Arsenic	i —	1 1	3.7 0	<u> </u>	ו טו				I P
Barium	İ	 	0.4 B				<u>' </u>		P
Beryllium	İ	1	0.2 U			*	<u> </u>		P
Cadmium	İ	1 1	0.4 U						P
Calcium		十十	7.9 U				<u>' </u>		P
Chromium	İ	1-1	0.6						P
Cobalt	j	11	0.5						I P
Copper	i	11	1.5						P
Iron	†	11	8.7 0		B				I P
Lead		 	1.1			<u>'</u>		1	
Magnesium		1 1	61.8 B	·		<u> </u>			P P
Manganese		 	0.2 U		U				I P
Mercury		7 7	0.1 B		B	0.1	В		
Nickel		1	1.0						CV P
Potassium	İ	1 †	183.3 B		BI	<u>_</u>			┸
Selenium	<u> </u>	1 i	2.6	2.6	انت				I P
Silver	İ	ΤĖ	0.7 U	<u> </u>		<u>'</u>			P
Sodium	1	1	99.3 U		υl				P
Thallium		11	4.4 U			<u> </u>	— ∦		P
Vanadium		1 i	0.4 U			<u> </u>	<u>!</u> !		P
Zinc	<u> </u>	1 i	1.0 U			<u>_</u>			P P

3

BLANKS

Lab Name: COMPOC.	HEM				Cor	itract:						
Lab Code: <u>LIBR</u> T	Y Cas	e No.	· :		SAS No	o.:		SDG 1	No . :	U2812		
Preparation Blan Preparation Blan						rg): <u>UG/</u>	L					
Analyte	Initial Calib. Blank (ug/L)	С	7	Con		g Calibr (ug/L) C	ation 3	C	Pre Bla	paration	C C	м
Mercury	1			1 1 11 1		1 1		1	ii -			

3 BLANKS

Lab Name: COMPUCE			Cont	ract: _	·	·		·		
Lab Code: LIBRTY	Case No	. :		SAS No.	:		SDG	No.:	U2812	
Preparation Blank Preparation Blank				· · · · · · · · · · · · · · · · · · ·): <u>UG/</u> I	<u>. </u>				
Analyte	Initial Calib. Blank (ug/L) C	1	Con	tinuing Blank (ation 3		Pre Bla	eparation	 м

0.1 | U

0.1 0

Mercury

0.100

3

BLANKS

Lab Name: COMPUC	НЕМ				Co	ntract:					
Lab Code: LIBRTY Case No.:					SAS No.:			SDG No.: U2812			
Preparation Blan Preparation Blan						kg): <u>UG/</u>	L	 -			
Analyte	Initial Calib. Blank (ug/L)	С	4	Cor		g Calibra (ug/L)	ation 3	C	Preparation Blank	С	М
Mercury		T	0.	1 U		1 1					

5A

SPIKE SAMPLE RECOVERY

SWILLTE	NO.	

GW-MW11S	- 1
 	

Lab Name: COMPUCHEM	Contract:		
Lab Code: LIBRTY Case No.:	SAS No.:	SDG No.:	U2812
Matrix (soil/water): WATER	Level (low/med): LOW		
% Solids for Sample: 0.0	never (low/med): Low		•

Concentration Units (ug/L or mg/kg dry weight): <u>UG/L</u>

Analyte	Control Limit %R	Spiked Sample Result (SSR)	С	Sample Result (SR)	C	Spike Added (SA)	%R	Q	М
Aluminum	75 - 125	2127.8760	i	85.7067		2000.00	102.1]	P
Antimony	75 - 125	508.5372		2.3000	<u></u>	500.00			P
Arsenic	75 - 125	40.7771	<u>'</u>	3.7000	<u> </u>	40.00		<u> </u>	P
Barium	75 - 125	1982.8940	i	12.9930	<u>'</u>	2000.00		L I	P
Beryllium	75 - 125	49.8503	i	0.2000		50.00		L	P
Cadmium	75 - 125	48.6309	<u>;</u>	0.4000		50.00			P
Chromium	75 - 125	196.7896	i	0.6000		200.00			P
Cobalt	75 - 125	491.9208	1	0.5000		500.00			P
Copper	75 - 125	211.9483	Ť	1.5000		250.00			P
Iron	1	5608.9751	_	4649.9492		1000.00			P
Lead	75 - 125	19.9678	i	1.1554		20.00	94.1		P
Manganese	75 - 125	657.2399	<u> </u>	167.2726	<u> </u>	500.00	98.0		P
Mercury	75 - 125	1.0490	<u></u>	0.1000		1.00	104.9		CV
Nickel	75 - 125	489.6153	1	1.0000		500.00	97.9		P
Selenium	75 - 125	13.5128	T	3.0264		10.00	104.9		P
Silver	75 - 125	24.8352	i	0.7000		50.00	49.7	<u></u>	P
Thallium	75 - 125	50.4311	+	4.4000	<u> </u>	50.00	100.9		P
Vanadium	75 - 125	494.2151	<u>+</u>	1.9921	<u> </u>	500.00	98.4		 ₽
Zinc	75 - 125	498.4919	_	4.9024		500.00	98.4		P

Comments:	
	37
	O 1

5A

SPIKE SAMPLE RECOVERY

_	SAMPLE NO.
	GW-MW11SD
Щ.	

		GW-MW11SD	
Lab Name: COMPUCHEM	Contract:		
Lab Code: LIBRTY Case No.:	SAS No.:	SDG No.: U2812	
Matrix (soil/water): WATER	Lovel (lev/mad), rev		
% Solids for Sample: 0.0	Level (low/med): LOW		

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control	Spiked Sample Result (SSR)	С	Sample	_	Spike		Т	Т
Aluminum	Limit %R	<u> </u>		Result (SR)	C	Added (SA)	%R	Ω	M
	75 - 125			85.7067 B	,	2000.00	101.9	Ī	P
Antimony	75 - 125	514.1920		2.3000 U	r ,	500.00	102.8	i –	P
Arsenic	75 - 125	43.1576	Ī	3.7000 ບ	ı İ	40.00		 	P
Barium	75 - 125	1999.9561	<u>;</u>	12.9930	ij	2000.00			P
Beryllium	75 - 125	50.3534	<u> </u>	0.2000 U	-	50.00			P
Cadmium	75 - 125	49.4494	<u></u>	0.4000 U		50.00		<u></u>	 - -
Chromium	75 - 125	198.9369	寸	0.6000 U	<u>, '</u>	200.00		<u> </u>	P
Cobalt	75 - 125		<u>_</u>	0.5000 U					P
Copper	75 - 125	210.8197				500.00			P
Iron		5622.7349	-+	1.5000 U		250.00			P
Lead	75 - 125		<u> </u>	4649.9492		1000.00	97.3		P
Manganese	75 - 125	19.6670	ᆣ	1.1554 B		20.00	92.6		P
Mercury		662.7582		167.2726	-	500.00	99.1		Р
<u> </u>	75 - 125	1.0360	\perp	0.1000 U	1	1.00	103.6		CV
Nickel	75 - 125	494.3579	Ī	1.0000 U	Ī	500.00	 98.9		P
Selenium	75 - 125	14.5811	Ì	3.0264 B	<u> </u>	10.00	115.5		P
Silver	75 - 125	25.1458	÷	0.7000 บ		50.00	50.3		5
Thallium	75 - 125	51.7459	十	4.4000 U			\rightarrow	N	
Vanadium	75 - 125	498.9717	- +		1	50.00	103.5		P
Zinc	75 - 125	504.5835	$\frac{1}{1}$	1.9921 B 4.9024 B	$\frac{1}{1}$	500.00	99.4		P
	· · · · · · · · · · · · · · · · · · ·		ㅗ	4.3024 B		500.00	99.9		P

Comments:	
	38
	30

SW840 MILIALS

14

ANALYSIS RUN LOG

Lab Name: COMPUCHEM		Contract:	
Lab Code: <u>LIBRTY</u>	Case No.:	SAS No.:	SDG No.: <u>U2812</u>
Instrument ID Number: <u>V3</u>		Method: <u>CV</u>	
Start Date: <u>1/23/03</u>		End Date: 1/23/03	

EPA				T									1	\na	ly	te	s										
Sample	D/F	Time	% R	A	s	Α	В	В	С	С	С	С	С	F	P	М	М	Н	N	К	s	A	N	т	٧	Z	С
No.				L	1	s			D	A		0	υ		1	G		G	I		E	G	Α	L	Ì	N	N
S0	1.00	1129						İ	_			İ						Х			<u> </u>						Г
SO.2	1.00	1131														İ		Х			Ī						
S0.5	1.00	1133						Ì				Ì	Ī					Х									_
S1	1.00	1135			Ī								Ì					Х									_
S5	1.00	1138																X				ļ —					_
S10	1.00	1140														İ		Х			-						_
ICV	1.00	1143			İ	İ												Х									_
ICB	1.00	1145					l											Х			L						_
CRA	1.00	1147							_							-		Х					l				_
CCV	1.00	1149																Х									
CCB	1.00	1152			 				-		_					_		x				-					
ZZZZZZ	1.00							L								<u> </u>											_
ZZZZZZ	1.00	1156	-													_					L						_
ZZZZZZ	1.00	1159								 						L			Н								—
ZZZZZZ	1.00														_	L	l						_	-			
222222	1.00	1203			_	l										L							l				
ZZZZZZ	1.00	1205	-						~															_			
ZZZZZZ	1.00									L 														_			_
ZZZZZZ	1.00	1210								Н									\dashv					 			
ZZZZZZ	1.00																								_	l	-
ZZZZZZ	1.00	1214		Н						 	_				_]	-					\dashv	ᆛ		_
CCV	1.00	1216												- 1				 X		_							_
CCB	1.00	1219							_			Ш			-		ᅢ	X	{	_	_		_	_	-		_
ZZZZZZ	1.00	1221							_			i	Ш									_		_			-
ZZZZZZ	1.00	1223						_				Н		\dashv	_		\dashv						¦				
22222	1.00	1225										Ш	_				\dashv	_		_			_ <u> </u>				
ZZZZZZ	1.00	1227		\vdash								Н			_					4				\dashv			-
ZZZZZZ	1.00	1230							_			Н					\dashv			닉	4	_	<u> </u>	긤		_	_
ZZZZZZ	1.00	1232						-1													-			_¦			'
ZZZZZZ		1234		ll		Н		_				Н					-							_			
ZZZZZZ		1236											Ш		_		\dashv		-	ᅼ				-	_	i	
ZZZZZZ		1238						-			_	Ш										_					
ZZZZZZ	~	1241		-			 1					Н					_						ᆛ		_	_	
ccv		1243							_			ا ـ ـ ـ ـا ا	Ч					×		_							
CCB		1245									_	Щ					4			[_		_	_			_
ZZZZZZ	<u> </u>	1247		Н													_		_	_	_						
ZZZZZZ	!!	1250																_	-		_	_	_	_	_		
ZZZZZZ	<u>}</u>	1252									_		4				!			إ			4	75-1			

14

ANALYSIS RUN LOG

Lab Name: COMPUCHEM		Contract:	
Lab Code: <u>LIBRTY</u>	Case No.:	SAS No.:	SDG No.: <u>U2812</u>
Instrument ID Number: <u>V3</u>		Method: CV	
Start Date: 1/23/03		End Date: 1/23/03	**************************************

EPA				_									_		-												
Sample	D/F	Time	% R	-		-	T =	T	_					\na								1					_
No.		1 11116		A				В		C		C		l F		M	1 1	H		K			N	T	V	Z	
ZZZZZZ		7054		L	В	s	A	Е	ע	A	R	0	U	E	В	G	N	G	1		E	G	A	L		И	И
222222		1254					<u></u>	<u> </u>		Ш		Щ	Ш		_							<u> </u>					<u></u>
222222		1256		<u> </u>		ļ	<u></u>	_		Щ					ļ							_	Ш	Ĺ		Ш	<u></u>
ZZZZZZ		1259		<u> </u>						Щ	_				_				_				Ш				_
ZZZZZZ	-	1301		Ļ				L.,	_	Щ		Щ			4				_							Щ	
222222	1.00	1303						L	_		_				_			_	_	_			Щ			Ц	_
ZZZZZZ	1.00	1305		Ш						Щ	_				_		_		_						_	Ш	_
CCV		1307					<u></u>			H		Ц		_	_			ļ	_								_
CCB		1310	·							Ц			_		_			Х	_							\perp	
ZZZZZZ	1.00	1312								Щ	_				_		\Box	x									_
												ļ			_		_	ļ									
ZZZZZZ	1.00	1316				!				\perp					_												
ZZZZZZ		1319								\Box														\Box		i	
ZZZZZZ												\perp]											[
ZZZZZZ	- 			Ц		$ \bot $									\perp			1			ĺ					ĺ	
ZZZZZZ	1.00			\square																			Ī				
ZZZZZZ	1.00	1327										1											1			- :	
222222		1330																		-			Ī	Î		\exists	
ZZZZZZ	1.00	1332]		ĺ		Ī			Ī	Ī	Ì		Ì	Ī	Ī	Ì	Ì	1	Ī			i		
ZZZZZZ	1.00	1334			Ī							Î	-		T		Ì	TÌ		Ī			Î			1	_
ccv 5	1.00	1336			Ì	Ī		Î				1		1	\exists		1	x		1			1	1	i	寸	_
CCB	1.00	1339				ĺ			ī	T)		i	1	1	7	T	寸	Х	\exists	1	ᅥ		1			\dashv	_
ZZZZZZ	1.00	1341					Ī	İ	i	寸		- i	寸	一	1	1	寸	1	7	寸					1	_	
ZZZZZZ	1.00	1343		j		T	ヿ		1	1	T	T		1			寸	\exists		i			寸	_	\dashv	十	
PBW	1.00	1345		Ī		Ī	T		1	ì		Ť	寸	十	7	\exists		x	寸	寸	+	\dashv	+		1	十	-
LCSW	1.00	1348		j		Ť	1		<u>-</u>	1	_	寸	-	-+	+	+	-+	x	+	ᆉ	\dashv		+		+	十	
GW-MW11	1.00	1350	1	T		T	ΤÌ	i	1	- 1	-i	1	i		+	_		x	十		1	_			+	十	- ;
GW-MW11D	1.00	1352	i	7	1	1	1	7	1		7	-	1	寸	\dashv	+		x	+	十	-+	-			+	+	
GW-MW11S	1.00	1354			T	ī	寸		寸	i	寸	寸	寸	十	7	7		\mathbf{x}	\dashv	\dashv			\dashv		-	+	
GW-MW11SD	1.00	1357	Ī	\neg	寸	寸		7	1	寸	T	1	\dashv	\dashv	+	7		\mathbf{x}	+	十		1	+	\dashv	\dashv	+	
GW-MW01	1.00	1359		Ť	1	T	寸	一	1	十	+			1	+	-	ب	X	+	1	+	1	+		+	+	- ¦
GW-MW02	1.00	1401			_	$\overline{}$		1		-	1	+	\dashv	+	十	1	<u></u>	x	\dashv	_	1		\dashv	-+	\dashv	-+	-
ccv 6	1.00		i	1	寸			+	+		\dashv	-		+	十	+		x	+		\dashv	\dashv	+		\pm	-+	-
CCB	1.00	<u>+</u>	- 1	+	\dashv	1	7	+	+	<u>_</u>	+	_	\dashv	十	+	1		X	ᆉ		+	+	_ <u> </u> .	+	+	+	-¦
GW-MW02-D	1.00			十	十	十	+	\dashv	1	\dashv	\dashv	+	十	+		+		XI VI	+		-	+		\dashv	+	+	-
CM-WM08	1.00	<u></u>	·	十	+	十	\dashv	\dashv	十	_	\dashv		\dashv	+	+	十		XI	十	\perp	+	+	-	+	+	+	- ¦
GW-MW10	1.00	1412	·		7	+	+	_†	十	+	+	$^+$	+	+	+	\dashv		Λ X	+		\dashv	+	+	+	+	+	
GW-MW07	1.00			十	\dashv	_+	\dashv	\dashv	+	十	+	1	+	+	+	\dashv	-+-	<u>^</u>	+	1	+		+	+	+	+	
ZZZZZZ	1.00				-+	+	+	\dashv	 	1	+	+	+	+	\dashv	+		4	+		-+		41	$\hat{\mathbf{j}}^{\perp}$	1		_

SW840 WILLALS

14

ANALYSIS RUN LOG

Lab Name: COMPUCHE	М						 C	on	tr	act	t:	_														
Lab Code:LIBRTY	_	Cas	e No.:	_			 5	SAS	N	ο.	: ,				_	:	SDG	N	Ιο.	: ឬ	128	12				
Instrument ID Num	ber: <u>V3</u>	_					 ŀ	let	ho	d:	_	CV	<i>r</i>		_											
Start Date: 1/23	/03						F	Ind	D	ate	е:	1/	<u>′23</u>	/0	3			— ,								
EPA												1	\na	ly	te	s										
Sample No.	D/F	Time	₹R	A	S B	A S							1				H G	1		S E	A G	1	T	ı	Z N	C
GW-MW09	1.00	1419		\vdash					Ħ		Ī	\vdash			İ		х			Ϊ-	<u> </u>	 	┢	 		
GW-MW05	1.00	1422		П			Ī										Х						<u> </u>			Γ
GW-MW06	1.00	1424		П													х		_		_	$\overline{}$			-	Г
ER-SS-010903	1.00	1426									_				Ì		х				m	\vdash	\vdash			$\overline{}$

1.00 1428

1.00 1431

1.00 1433

GW-MW03

ccv 7

ССВ

х

х

14

ANALYSIS RUN LOG

Lab Name: COMPUCHEM	· · · · · · · · · · · · · · · · · · ·	Contract:		
Lab Code: <u>LIBRTY</u>	Case No.:	SAS No.:	SDG No.: U2812	_
Instrument ID Number: <u>V3</u>		Method: CV	·	
Start Date: <u>1/28/03</u>		End Date: 1/28/0	03	

EDA				1 -	_								_													
EP A Sample	D/F	m :				·······	,							\na										_		
No.	D/F	Time	% R	A	ŧ .	A S	B	B E	C	C		С 0	C U			M G	ł 1	H G	I	К	S E	A G	N A	T L	- 1	Z C
S0	1.00	1227			-		-	┝	\vdash	i i		i -		-	├─	-	H	X	<u> </u>	-	-	_	├	╁	\dashv	+
S0.2	1.00	1229					 				 !		L		_		ļ	<u>x</u>	 -	ļ	l	-	L	1	-+	+
\$0.5	1.00	1232				_	<u> </u>	-		l					_	-		$\frac{x}{x}$	-	_	-	L.,		\dashv	+	+
S1	1.00		·			L—.			<u> </u>	Н		_			L		Н	X		L.,	<u> </u>	_	_			+
\$5	1.00	1236					L .	<u> </u>		Н							Н	X		<u> </u>	<u></u>				+	+
S10	1.00	1239				_								_				X			<u></u>	<u>.</u>		\dashv	+	+
ICV	1.00	1241											Н				_	X					Н		+	
ICB	1.00	1243				<u></u> i					Н							x		-		_		ᅷ		
CRA	1.00	1245											-					$\frac{\hat{x}}{x}$						-+	+	+
CCV	1.00	1248							Н		⊣	LI			!		_	X	\sqcup		<u> </u>				+	+-
CCB	1.00	1250				_												X	_	_	-					+
ZZZZZZ	1.00	1252						_								_	- !	4		_		_	_	+	+	+-
ZZZZZZ	1.00	1254					극	_		I						-				_			ļ		 -	4
ZZZZZZ	1.00	1257				_	_			1			-			4	_	_	_		_		i	+	4	
222222		1259							Щ						\dashv			{	_					-	4-	-
ZZZZZZ	1.00	1301			ᅢ			-				_	_	\dashv		_	\dashv								4	+-
ZZZZZZ		1303				<u> </u>	1	 		1		I			4	_		_	-			-		\dashv	-	-
ZZZZZZ	1.00	1306		-					_	-	-	ᅻ	-		\dashv	-	-	 	ᆛ		_	-	_		-	
ZZZZZZ	 	1308		寸	-			\dashv			-		+		\dashv		\dashv								+	+
ZZZZZZ	1.00	1310		-	<u> </u>	- 		!			_+	_	\dashv	— 	ᆛ		廾		긕			[4	-	+	
ZZZZZZ	1.00	1312		\dashv	\dashv	1	\dashv			_			-	-			┪	+	_		\dashv	_	_		+	+
CCV		1314		+		<u></u>	\dashv			+				-+		-	-+	x	ᆛ		_		_	+	4	+
CCB		1317		\dashv	-		-+	\dashv	ᆛ	\dashv	-	+	+	\dashv	\dashv	+	\dashv	^ XI	\dashv	¦	4	-	_¦	-+	+	+
ZZZZZZ		1319		ᆉ	\dashv	 	╌┼	+	- 1	_+	+	+		井	- +	\dashv	+	쉬	_	4	_¦	4		+	+	-
ZZZZZZ		1321		\dashv			\dashv		4	-+		+	+	\dashv	+		+	4	\dashv			-	4	-	+	
22222	_ +	1323		十	+	<u> </u> 1			+		+	_	+	-+	\dashv		4	-+	\dashv			4			- -	+
ZZZZZZ	1.00			+	\dashv	+	+	-+	\dashv	\dashv	\dashv	ᆉ	+	-	┽	-	\dashv	4	+	-		4	4		-	+
ZZZZZZ	1.00	<u>.</u>		\dashv	+		十	+	-	_	\dashv	井	\dashv	-+		ᆛ	+	+	-	_ <u></u>	4	+	ᆛ		+	
CCV		1330		\dashv		_		+		-+		_		+	-+	4		x	-	-+	-	_	4	+	+	+
ССВ		1332		-+	\dashv	_	-+	十	+	<u>_</u> _	ᆉ	1	$\frac{1}{1}$		+	+	+	<u>기</u>	-		-	-+	_	_ _	+	+
PBW		1336		+	1	-		\dashv	ᆛ	+	\dashv		\dashv	-+	+	ᆛ	-+	<u>^ </u>	-	4		-	\dashv	+	4	- -
LCSW		1338		+	+	井	\dashv	\dashv	- 	+	\dashv	井	+	+	+	+	+	<u>^ </u>	ᆛ	4	_	-	1	-	<u> </u>	+-
ER-SS-010803		1340		-	+		+		4	+	1	4	\dashv	+	-+	+	-+	X X	+	ᆛ	4	4	_		+	1
ccv		1342			-+	1	+	\dashv	4		+	+	+	_	-	+	+	<u>-</u>	\dashv	4		4	1	-	+	+
CCB		1345		+	+	-		-+	_+		+	<u> </u>	+	+	4		-	X X	-	_ļ		_	4	_ _	4	<u> </u>

SW840 MIETALS

14

ANALYSIS RUN LOG

Lab Name: COMPUCHEM		Contract:	
Lab Code: LIBRTY	Case No.:	SAS No.:	SDG No.: U2812
Instrument ID Number:	P4	Method: P	
Start Date: 1/24/03		End Date: 1/24/03	

EPA													7	\na	1 y	te	s										
Sample	D/F	Time	% R	A	S	A	В	В	С	С	С	С	С	F	₽	M	М	н	N	K	s	A	N	т	v	2	С
No.				L	В	s	A	E	D	A		0		E		G	. ,	G	I		E	G	A	L		1 1	N
so	1.00	1057		х	х	х	Х	х	Х	Х	Х	х	х	Х	Х	х	х		х	Х	Х	х	X	х	х	х	_
S	1.00	1105							x		х		х		Х		П	_	х		Х	х	<u> </u>	Х		X	
S	1.00	1113		х			Ī		Ī	Х				х		Х	H										_
S	1.00	1119				Х	х	х	Ì			х				<u> </u>	х								х		
S	1.00	1125					i		<u> </u>	İ							Н			Х		╁╌	Х				_
S	1.00	1131			х		Ì															H		 			_
ICV	1.00	1136		х			х	х	х	x	Х	х	х	х		x	X		х	х			х		x	x	
ICV	1.00	1144						<u> </u>				-									 	 		 			_
ICV	1.00	1153		ÌТ	х	х			-	<u> </u>					X			_			x	х		x		\Box	_
ICB	1.00	1201		х	х	х	х	х	х	x	Х	x	x	x	X	x	X		Х	X		Х	х	Ц.,,	x	x	_
22222	1.00	1209							-	<u> </u>														L		-	_
ICSA	1.00	1217		x	х	х	x	х	х	Х	Х	x	х	x	Х	X	х		Х	X	х	x	X	L	х	x	_
ICSAB	1.00	1229		х		ĻI	х	Х			X	_	X	_	х	_	Х		Х		х	<u> </u>	Х		х	X	_
ccv	1.00	1237		x	Х	لحبا	Х	Х	_	-	X	_	X		х		X		X		x	ļ	X		x	X	_
ССВ	1.00	1245		x		х	X	Х	<u> </u>		X		x		х		X		X		x	L	X	_	x	X	
LRS	1.00	1254		x			X	Х			X		x		x	_	X		X		X		X		X	X	_
ZZZZZZ	1.00	1302												쉬	^	3.	1	_	^		_	Λ	^	^	^	4	
ZZZZZZ	1.00	1309				ا			l	Н											_		1				_
ZZZZZZ	1.00	1317							-			LI 	-	-	긕	_										_	_
ZZZZZZ	1.00	1324								L								-					Ц		_		—
ZZZZZZ	1.00	1332						\dashv	_					_		-		_								\dashv	—
ZZZZZZ	1.00	1340				Н	 			I I		<u> </u>	-		_	_	1	_								\dashv	_
ZZZZZZ	5.00	1347								 			-				_								l	-	_
ZZZZZZ	1.00	1355											_				+		_	l						-+	_
ZZZZZZ	1.00	1402		Н						L! I i	·		+	┪	-				\dashv	긕	_					+	—
ccv 2	1.00	1410		х	<u></u>	х	x	×	x	L I	x	v	Ţ	v	$\frac{1}{x}$	_ V	x		x	v	v	х	v	v	- l	x	
CCB	1.00	1417		x		X		x				x			x	_	$\frac{\hat{x}}{x}$		X			x			x x	$\frac{\lambda}{ x }$	_
ZZZZZZ	1.00	1425			-				**			<u> </u>	^	^	<u>^`</u>			긕	^			Λ	^_	Λ.		_	-
ZZZZZZ	1.00	1433									-	_		╌┤				긕		_						+	
ZZZZZZ		1440			\dashv	_							_	\dashv			-+			_				_			_
ZZZZZZ	1.00	1448						-	_				-		_	_			닉	_	긕			_	_	+	
ZZZ ZZ Z		1455											닉	- 1				ᆛ	+			Ш					
ZZZZZZ		1503		-		1						_		\dashv		-	_	_	+	_		_			_	-+	_
ZZZZZZ		1510			-	<u></u> _		\dashv	إ	<u> </u>	-	1		4			+								{		—
ZZZZZZ	1.00	1518		_							-						+					<u>.</u>				\dashv	_
22222	1.00	1525				! !			ـــا				-		!	_		ᆜ		ᆛ	_	_		_		-	_
ZZZZZZ	1.00	1533		-						Ц			4	ᆛ				_		_				_			_
ccv 3	1.00	1541		x	х	v 1	- 		7,7		\ \		_	_		,	x		. 		_	إب	ال.			x	

14

ANALYSIS RUN LOG

Lab Name: COMPUCHEM		Contract:		
Lab Code: LIBRTY	Case No.:	SAS No.:		SDG No.: <u>U2812</u>
Instrument ID Number: P4		Method:	Р	

Start Date: 1/24/03 End Date: 1/24/03

												7	Ana	ıly	te	 \$										
D/F	Time	% R	A	s	A	В	В	Τc	Tc	Гc	Tc	,		_			н	NT.	ĸ	6	n	N	77	177	7	С
			L	В	s		1	D	1 -	1 -		ı		1	ì	1 1	G	I	1	E	G	A	L	ľ	1	N
1.00	1548		x	х	х	x	x	x	х	x	x	x	x	х	x	Х		X	х	x	X	x	l X	l V	x	⊢
1.00	1556		İ				Ī	i	1		Ï	Ë	1	 				ا ت			ļ.,	H		1	'	\vdash
1.00	1603		Х	х	х	х	х	x	İx	x	x	y	Y	х	X	x		x	x	x	x	×	l I x	1	Y	-
1.00	1611		х	_		x	! -		۰-				_	_		-	_				<u> </u>	<u> </u>		ļ		-
1.00	1618		х			x	x	! —	-		_	_	_	<u> </u>			!	-		_		ب.	Щ.		-	
1.00	1626		x				<u> </u>	 —	-					_	•			!				<u> </u> ^_	<u> </u>			-
1.00	1634		х	x	_		<u> </u>					_		L				!	l		_	L	L		بــــا	
1.00	1641		х	х			ļ	<u> </u>						_	Y				vi			v				_
5.00	1649		х	x		Ь		<u> </u>															L	-	!	_
1.00	1656		x				_	╄	_					_				ļ						لتنا	بحب	
1.00	1704		х	!	x									_		<u> </u>			_					-		_
1.00	1711		x	x	x	-		<u> </u>	نـــب		_					—÷	\rightarrow							-		
1.00	1719		x	\mathbf{x}				<u> </u>			,		+					- -							بـــــــــــــــــــــــــــــــــــــ	_
1.00	1727		X	$\frac{1}{x}$	χİ			_					\rightarrow		!	_		_								_
1.00	1734		х	х	$\frac{1}{x}$				\perp			+				-+	÷	-		!	—			-	-4	_
1.00	1742		$\frac{1}{x}$	—. ļ											1	<u> </u>		↓				1		<u>+</u>		
1.00	1749		-+									<u>-</u> +	_+	_+	-	- +	- +		1			_		-	-+	_
1.00	1757				1	_	— <u> </u>		$\overline{}$		_ +	\rightarrow	\rightarrow			<u> </u>		-					!			_
1.00	1804			\rightarrow		<u>-</u>	بــــا		$\overline{}$		_	-+			-+	<u>- +</u>	-						_		<u>-</u> !	
1.00	1812		-+	-			—.					-+				- +	-				_			\rightarrow	-+	_
1.00	1820			- -∔				_	-					↓			— <u>+</u>	!_				_			-4	
1.00	1827	- 		-+	 +	_				_		-+			<u>+</u>	<u> </u>	- +	_	_				┉┥	-+		
1.00	1835		_	-		_						\rightarrow	+	┯┿					_			1				
1.00			-+	_		— <u> </u>	<u>-</u>				\div	\rightarrow		+	<u> </u>		-						-		-	_
				-			-			-+				-		-	<u>-</u> -	Щ.		_		<u> </u>	╌┽			_ !
	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	1.00 1548 1.00 1556 1.00 1603 1.00 1611 1.00 1618 1.00 1626 1.00 1634 1.00 1641 5.00 1649 1.00 1656 1.00 1704 1.00 1711 1.00 1719 1.00 1727 1.00 1734 1.00 1742 1.00 1742 1.00 1757 1.00 1804 1.00 1820 1.00 1827 1.00 1835 1.00 1842	1.00 1548 1.00 1556 1.00 1603 1.00 1611 1.00 1618 1.00 1626 1.00 1634 1.00 1641 5.00 1649 1.00 1656 1.00 1704 1.00 1711 1.00 1719 1.00 1727 1.00 1734 1.00 1742 1.00 1749 1.00 1757 1.00 1804 1.00 1820 1.00 1835 1.00 1842										D/F	D/F	D/F	D/F	1.00 1548	D/F	D/F	D/F	D/F	D/F	D/F	D/F	D/F	D/F

CompuChem

a division of Liberty Analytical Corporation 501 Madison Avenue Cary, N.C. 27513

Tel: 919/379-4100 Fax: 919/379-4050

SDG NARRATIVE

SDG #Q2849

SAMPLE IDENTIFICATIONS:GW-6MW-3D GW-6MW-6 GW-MW-117 GW-MW-118 GW-MW-118D TRIPBLANK1-14 GW-6MW-5D GW-6MW-5S GW-6MW-7 TRIPBLANK1-15 GW-MW-115 GW-6MW-3S GW-6MW-8 GW-6MW-4 GW-6MW-4D

The fifteen water samples listed above were received intact, at 2.0, and 2.4, degrees C, with proper documentation, in sealed shipping containers, on January 15, 16, and 21, 2003. The majority of samples were scheduled for volatile, and metals analysis, and samples TRIPBLANK1-14, and TRIPBLANK1-15 were submitted for volatile only analysis.

The volatile samples were prepared and analyzed following SW846 Method 8260B, and this portion of the SDG narrative will only cover the volatile data. All pertinent Quality Assurance Notices are included in the narrative section, and all pertinent Laboratory Notices for SDG # Q2849 are included in the sample data sections. Analysis holding time requirements were met for these samples, and all sample pH values were less than 2.0.

Several target analytes were identified in GW-MW-117 above the reporting limits, and tetrachloroethene was present in GW-6MW-7 above the reporting limits.

Other than laboratory artifact and siloxane peaks, numerous additional Tentatively Identified Compound (TlC) were only present in GW-MW-117. These TlCs were generally characterized as substituted benzenes, and naphthalenes.

All Bromofluorobenzene (BFB) abundance criteria were met for tunes associated to this SDG. Overall QC criteria were met for all initial and continuing calibration standards associated to this SDG.

All of the system monitoring compounds(SMCs) met recovery criteria in the analyses of these samples, and all of the internal standards met response and retention time criteria in the analyses of these samples.

The associated method blanks met all quality control criteria, and did not contain any target analytes above the reporting limits.

Manual quantitations were performed on one or more process files in the initial and continuing calibration(s) associated with this SDG. The reasons have been coded with explanations provided in the notice included in the narrative section of this SDG.

Duplicate matrix spikes were generated from the original GW-MW-115 as requested, and met all QC precision and accuracy criteria without exception. The associated Laboratory Control Samples (LCSs) met all accuracy criteria.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Roy Sutton

Case Reviewer

January 28, 2003

Client:	male	m Pi	~~	<u>_</u>	Re	c'd Date:	MERCIA /- (S-	<u>د ه</u>			PS/RFA		85	-							$\frac{\alpha}{\sigma}$	
Project:	LAF	20 69			C	ourier:	u PS			1		/			Lab	Instr	uctions					
Quote: 0-2					A	rbill No./ 2	23009822	(00)	2 2353		TRL	4	' Re	et.	As,	Pe	only	,				
Login No. 0	2849													<i>T</i>								_
Subcontract?	Y / 🐼				-																	_
TAT Verbal_	Rep	ort 14																				
										_						· · · · · · · · ·			-			
Cooler Rec'd E	By:	P. Still) D e		·	\neg							Ε	Daras	neters							
Sample Login		Jair	4279	4		7								4141	neiers				Τ	-		
Temperature:		°C						- 1								- 1						
Cyanide Sampl	es checked for	sulfide & c	hlorir	ne? Y /	(NA)	7		Ì								- 1			l			
Phenol Sample	s checked for	chlorine?		(NA)		7						ļ							ĺ			
Received in Go	od Condition?	· (Y)	N				Ì	- 1												H		
If no, explain:						٦	1							ì		1						
	· 				······································		1		June .		- 113	Ta			_	_			ĺ	J		
CompuChem	Clien	t ID	Q	Matrix	Date	Military	No. &		No. &	2	No. &		705 No. &	- -	TOC							
ID		110	Č	או שמואו	20 03	Time	Type	P H	Type	P	Type	н	Type	P	No. & Type	P	No. & Type	p H	No. & Type	P	No. &	p H
02849-1	BW-60	W - 3D		WA	1 / 13		3 40 ml		1.50016	KZ	_	-		11			····	+		+		+
) 2	GW-GN			i	1/14	14:20			1	ī	_		٠		_			1		†=†		+
2	6 W - M				f	13 45				Ш	1.581		1. PL	†	1	 				1-1		+-
· V	1				 				_	╁┼┨	1. 2015	-	1:10	╁┼	2,40 ml	+-+		+	<u> </u>	╅╾╂		┿
		118	-		 	11 50	-			┼┼┤		╁		╁		+				╁╾╁		┼-
	9	1180				1130	V		V	M				\sqcup		1-1		\bot		 		丄
<u> </u>	TRIP	BLANK	\square		<u></u>		1.40al	\sqcup		Ш		Ш		\sqcup								
						 	-									 				+	-	İ
					/	:																1
					1	:				П								$\uparrow \neg \uparrow$		 		1
					1	:			03					1-1		1		1-1				H
					 	17:	1-15	#		\Box		-		-		-				╁╼╂		+-1
					1	K (. 0 .				\vdash				-		\vdash		\vdash				1
		·····								Ш						\sqcup						
					N	:																
					1	:																
					1	:				\sqcap		丁				1		\sqcap				\Box
	· · · · · · · · · · · · · · · · · · ·			-	1	 		十				+	·	+		-		 				\vdash
	······································					:	 	+										+		\vdash		\vdash
							 			-		-		-						\vdash		\sqcup
							1	-		_				$\perp \downarrow$		_		$\sqcup \bot$				Ш
					/		1															
								1		T		Ŧ		$-\mp$		—				-		

lient:	7		0. ,	Per	COMN	IERCIA - 15-				PS/RFA		h/~								 ~
oject:	1000	nu 1	Pini	Cor	rier:	1 PS		·	1				<u> </u>	Lab	Instr	uctions				
iote: 0 28	419		εψ	Air		20009822		2353	1	PU	1.	1 630	Q, .	+ FT	11154	detions				
gin No. 74	2849																			
ocontract?	Y / N							~												
T Verbal	Report /							· · · · · · · · · · · · · · · · · · ·	-											
oler Rec'd By	/: [the	ller]							P	aran	eters						
nple Login B			k																\Box	
nperature:	2,0℃			_	1													ĺ		l
	s checked for sulfide &		ine? Y /														- 1	i		
	checked for chlorine2	<u> </u>	<u> </u>		-						I					i	- 1	ł		
o, explain:	od Condition?	/ N	 .		1	Disa											-	İ	İ	
o, explain.						مستعمرة							- 1				j	1	- 1	
					J) was	~											1	- 1	
mpuChem ID	Client ID	QC	Matrix	Date 20 03	Military Time	No. & Type	p H	No. & Type	Р Н	No. & Type	p H	No. & Type	р Н	No. & Type	P H	No. & Type	P H	No. & Type	H	No. á Type
849-1	BW-6MW-3	5	WA	1 /13	14 30	1.STON	2				П									
1 2	6W-6NU-1		,	1/14	14 20		1												\Box	
3	6W-MW-11		 	1/	13 45		111		\Box		\Box			 -	\vdash		+ 1		 	
4		_	 	+ , 1 -		+ + -	+	·	 		\vdash		\vdash		+-1		++		++	
1 7	119		+ + -	1	1120	 	Н				+		┼╌╂		-		╁┼		╁╼╂	
Y)	118	0	Y	V/V	11:30	V	14		-		\vdash								┶	
																	\Box			<u> </u>
				/	:	-									-					
				1	;			X 3			1-1									
				1	:	15		0/			III		П						\sqcap	
		1	1	1_	1:1	//			1		1-1		\Box		1-1		+		\vdash	
	·	+-	+	17 k	ft - to		\vdash		╁		1 1		 		╁╌╂		+		╁┼┼	
			 /			ļ			┞╼┼		+		1 1		\vdash		\vdash		┼╾┼╴	
			│ { <u>↓</u>		·	ļ			1		\sqcup		-				$\vdash \vdash$		╁╌┼	
	·				:												Щ		Ш	-·
			<u> </u>	/	:															
T		1		1	:		$ \]$				П		\prod						T	
				/	:						П				\top		\sqcap			
····		+		1	:		\square		1		 						-			
	-/		+	,	<u> </u>	-	\vdash				 		-+	<u>-</u> -	┼╌┼				 	
	<u></u>	+		· · · · · · · · · · · · · · · · · · ·	·	 			\dashv		- -		\sqcup		┷		\vdash		╁╼╂╴	
_/		-		/																
		ì	1	/	:	1					ıI		1 I		1		4 I	ì	. I	

	Сомр	j C	HI	EΜ	(B)	 -		СН	IAIN-	OF-C	UST	ODY	RE	CC	RE)						ı	Na	D- 068834	\Box
	a division of Liber				LAT	t Name	60 60				Clien	t Addre	ess :							P	oint-			ntact :	-5-
	501 Madiso	n Ave	nue		Carrie		00				1 10	אמך ו	<u>m 1</u>	un	TUK	₹ Đ	R.	१७८	60	D	אטד	Y	PO	ace	\leftarrow
	Cary, N0 1-800-83				Airbill	<u> </u>					1 PA	Mount	OT X	TCW	$S_1 \sqrt{\epsilon}$	A 2	360	26		_ T4	eleph	non	e N	10.: (757)873-87	00
					Sampl	er Nam	ne : (5:	cretyr	1 Den	118	Cama	lee Ci								S	ampl	ling	CO	omplete? YouN) (se	e Note 1)
BOX #1	1. Surface Wa		6,	Trip Bla			72 A. HC		F. Ice (Joannp	ler Sign			erad					P	ojec	t-s	peci	ific (PS) or Batch (B) Q	1C ?
	2. Ground Wa	ter		Oil			B. HN	O3 + Ice	G. Oth	•	ŕ				rer so Milters		ĺ	Box	#4		High			Box #5 C. CLP 3/90	T. TCL
	Leachate Rinsate			Waste		İ		OH + Ice						.	mater c	-	- 1				Medi Low	ium		S. SW-846	
	5. Soil / Sedim	ard (C		Other			D. H2	SO4 + Ice	I. ZnAc	+NaOH	+ ice									L	LOW			W. CWA 600-s	ieries
	O. COMP OF CHIP	a k / S	nobe			<u> </u>	E. Un	preserved				<u></u>												0. Other	
(9 cł	Sample ID haracters max		n)	1993		Box#		Box #2		Box #6		ab oc JP)					ercury			N. FROM	DISC ARGONE, RA			Remarks / Com	
		· · · ·	_	Date:Year	<u>E</u>	Metrix	Preservativ	Filtered /	Expected Conc	Method	No. of Bottler	Use for Lab QC (MS or DUP)	¥0^	SVOC Sedicities	85	Herbicke	Metals / Mercun	Cyande	O&G / TPH	7 ARSON	W 350	VILIATIVE STATE	š	(see Notes 2	
GW-	-16 MW-	31)	1/13	3 14:30	1	A,8	Flu		S	5		3					7	+	f.		7	귀		
GW	6 MW-	6		1/12	11:20	2	43	FM		S	5		3	+	+		+	+	╂		4	4	-		
GW-	1-17M.	NE	7	1/14			A,B,D			S	9		-		┼┤	4	-	4	+		<u> </u>	4	4		
GW -	MW-1	18	-	1.11	1 1 20						[3	1	\bot	\dashv	\perp	12	<u>"</u>	Ц	1	1	1		
GW-	MN-1		D	1.10	 	2	A,B			<u>S</u>	.5		3	\perp	\sqcup	4		Ŀ			1				
-	 	 	- F-	1, 14	11:30	L	A,B	Flu		S	5		3					1.		1	1	T	T		
1/4/	P BL	id r	1 K	/_	ļ.:		ļ <u>.</u>										T	Τ			7	1	\dagger	-	
				1	<u> : </u>									T		1	+	\dagger	f	H	\top	+	十		
				1	1: 1								_	1		\dashv	╁	+	H	+	+	╁	+		
				1									+	╁╴		┽	╫	┼	╀╌┦	\dashv	+	╀	+		
				,		 -	 						- -	+	\vdash	- -	4	↓_		\downarrow	_	1	\bot		
Clients Sp	ecial instruction	s:	اا		<u> </u>			ll	L	1		1					1	<u> </u>				L	丄		
Lab: Recei	ived in Good Co	ndition	ız Y	or N	Describe	Proble	ms, If an	v:		·														Temperature 2.0	2 °c
•	shed By: (Sig) (1	Pin	w		Date: \		#2 Relinq	uished Ru	/: (Sla)				D-1			٦								
Company N	lame: Y	Mai	Co	im h	rhit .	Time:		Company		. (cay)				Darte			1		xquis!		y: (Si	9)		Date;	
#1 Received	d By: (Sig)	9	S	lille		Date: //		#2 Receiv		ia) 🥇				Tim			<u> Co</u>		y Na	me:				Тітле;	

Date:

Time:

#3 Received By: (Sig)

Date:

Time:

Company Name: Note (1): If "N" lab will hold samples to await remainder of project-maximizing batch size and minimizing QC ratio; if "Y" lab will begin processing batches now. Note (2): Samples stored 60 days after date report mailed at no extra charge. Note (3): All lab copies of data destroyed after three years.

Coupe Chen Time: 043 Company Name:

Company Name:

			• .	•					ison of Li RECEIV				tical				F	age	e	_of		2
Client:	malenni Pi		۵ ـ هـ	nci	Rec'd Date		1-16-				PS/RFA		85									,
Project:	LARCI				Courier:		LP	5							Lab 1	nst	ructions					1
	849			· .	Airbill No.	12			10022342		TCI	<u> </u>	12	ch	1 =	A	FL					
	22849 P28	49																				_
Subcontract?	Y / N										DULL	11	d med	2	2 A	-	FC					
TAT Verbal	Report 14																					
			_		-																	
Cooler Rec'd B	y: 19 Sed		en			ſ						_	P	arar	neters							
Sample Login E		-	L.			[]		i	
Temperature:	2,0 ℃			$\overline{}$		- 1											1]	- 1	i	
	es checked for sulfide & c	lorir	1e?~X /	(NA)		ı	İ		1				İ				1		l	ł		
	checked for chloring?	Y	(A)			ŀ	1] `		ľ	•	•				Ι.			ı		
Received in Go		N				Į									1		74.00	٠,١	1			
If no, explain:						1				-							Diss	v	Ì	1		
,,						- 1	٨.,		بمملا	Ξ.	س. ا		_				000	~	1	. !		
							VUA		1. Orsens	_	Suffee	۰	173		700	_	700		<u> </u>			
CompuChem ID	Client ID	QC	Matrix	Date 20_02			No. & Type	P	No. & Type	P H	No. & Type	p H	No. & Type	P H	No. & Type	p H	No. & Type	P	No. & Type	P H	No. & Type	H
02849-7	BW- 6MW- 5D		Aw		5 173		3,40ml		1,5014	(1				-								Τ
1 8	BS		1	V	142		1		1150PL		1.500PL		LIPL		2:400	22						Т
9	1 7	-			15	$\overline{}$			1.50%	_		\Box					 	\top	<u> </u>	\Box		\top
10				7		_ ح	1.400	 						-		-	 	+-		† †		十
70	TRIP BLANK	 -	Y			=	1,4000			_								╁╾		++		#
0 2410 1			114	1/1	<u> </u>			-		_		\vdash				-	1 4					十
R1849-1	GW-GNW-5D	 	WA	1.1								\dashv		-		\vdash	15000	62		+		+
/	55	Ь—		 	14.2			-	!			_		-				+		-		
8	¥ 2				15.1	5									_		V	£ 2	l			
				V	·																	Ţ
			· · · · · · · · · · · · · · · · · · ·	,						_										-	>	1
		├		,				 	 	_	ļ					-		+		╁╾╂		+-
		L			:											_		<u> </u>		1		4_
• 1				/	} :	- 1			105							_	l					
		1		/	:		177	0				\Box			-			Γ	,	П		1
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			- V	1/1	_		-	F											1		
}				12	AL			\vdash				\dashv						+-		 		+
				1						_						Щ				\vdash		 -
					:	1					L	l						\sqcup				1_
				1	:							I										
				,	;							7	1					П		П		
		_		1	- 			\vdash	-	_		7				\Box		\Box		\Box		\Box
		-		1		\dashv		\forall		=		=		\dashv		曰				-		\Box
Contains Toras	Abbreviations: 40ml.(40ml, via	<u> </u>	1/4-5	100	(Plastic Liter)		ND(500=1 (l	ic) : 250P(25		l Discuso	<u></u>	1E.0			ш	L	1		 1 • 6/	28/01:dce	لــــــ
Contained Type	CONDECTEDING TORRIST TORREST VICE	., .	OAMBELTA	usi) iila	(1 lastic Liter)	50	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		2301423	.011	1	J.,							,			

	ВОХ	1 2	1. 2. 3. 4.	sion (501 C	of Li Mac ary, 800 face und chate	ibent disc NC -83 Wat Wat	y Ar 27 3-56 ter	naly ven 513 097	5. 7. 8. 9,	Corp. Trip Blant Oil Waste Other	Carrier Airbill	Vo. : er Name	GO LA. HCI- B. HNO C. NaO	+ loe 13 + loe H + loe 04 + loe	F. Ice C G. Othe H. NaH	(6) Prily rso4 + to	Clien 761 NCM Samp	ODY t Addre Town PORT	SS: CC NO	7/110 (S) F. FI	KD	R. (STC		00 x #4		Te Sa Pn	leph mpl oject High	of-C P none ing	No coi	tect: CC 0.:(757) 873-876 implete? YorN (see fic (FS) or Batch (B) Qc Box #6 C. CLP 3/90 S. SW-846 W. CWA 600-se O. Other	Note 1) C? T. TCL
· •		9 ch	nara	am				um))	Date:Year. 2005	Тте	Matrix Sox #1	Box #2	Fittered / Unfittered og	Expected Conc. xog	Method box 46	No. of Bottles	Use for Lab QC (MS or DUP)	VOA	SVOC	PCB	ferbicide	Aetale / Mercury	yanide	TOC LTOX	AG/TPH	72 ARBANG, IAM	DISS MERNY, IND	Z .	W SULTAK	Remarks / Com (see Notes 2 a	
/ -	8	ηW	生			L	L		L	1	:											Ī					7	7	+	7		
	G n	<u> </u>	6	М	W	Ŀ	5	D		01,15	12:30	2	A,B	F/u		9	5		3	+	十	\vdash				+	1	╗	+	+		·····
	GN	/ -	6	M	1	-	5	ঠ		01/15	14:25	2	A,B,D	Plu		S	9		3	+	+-		Н	\dashv	2	-	+	Ή,	1	8/2	1 @2	
	6 h	1-	6	M	W	-	7	7			15:15		A,B			S	5		3	+	╁	<u> </u>		\dashv	-	٠,	+	} 	+	4	1 @	
	TK	21	P		B	U	A	N	K	,				-100					ϯ	+	╁	-	\dashv	\dashv	\dashv	+	4	4	+	+		
			Τ			Г				,									\dashv	+	╁	Н	\dashv	+	-	+	+	+	+	+		
i		+	T					T		,	<u> </u>								+	+	+-	H	_	4	4	4	4	4	4	4		
		+	+							-', - 	· ·	-							+	+	+-			4	4	4	4	\bot	\bot	\downarrow		
		\dagger	_		Н	Н													-	+	-		\dashv	4	4	+	\downarrow	\perp	\perp	\downarrow		
	-	┿	╁	Н	-	\vdash		Н	H	<u>'</u>									\bot	1	\perp	Ц	_		\perp		\perp	_L_				

опака оресла настис	JOHN,	·						Tomporture 20 Pa
Lab: Received in Good	Condition?	York Des	cribe Prob	leme H	Anu:			Temperature ∠.e °C
#1 Relinquished By: (Sig)	17. 17.	~(./\lambda_1)		. 1			Ţ	
			Date: 1	 	#2 Relinquished By: (Sig)	Date:	#3 Relinquished By: (Sig)	Date:
Company Name: W	Nath	Athre	Time:	1 15W	Company Name:			Date.
#1 Received By: (Sig)	90	iller	D-4	1. 1. 10	S	1 = 1100.	Company Name:	Time:
				I	3 #2 Received By: (Sig)	Date:	#3 Received By: (Sig)	Date:
Company Name:	Coup	u Cham	Time:	093	Company Name:	Time:		
						THEFT.	Company Name:	Time:

Note (1): If "N" lab will hold samples to await remainder of project-maximizing batch size and minimizing QC ratio; if "Y" lab will begin processing batches now.

Note (2): Samples stored 60 days after date report mailed at no extra charge.

Note (3): All lab copies of data destroyed after three years.

	·					OMPUCH COMM	ERCIA	L]		VI)	G LO		tical					ago	·	_ of		<u>-</u>
Client: Mal		3				'd Date:		3_		P	PS/RFA											
Project: ar					Cot	rier: UP	<u> </u>			1					Lab	Inst	ructions				` '	
Quote: Q	1849 R2849				վ Դ ե	bill No. Z 230	তপ্র		7 100	b	234		τ									_
Subcontract?	Y / N				1	4			d. 1	Ĭ					····							-
TAT Verbal	Report 14] ·												_
										L					·							
Cooler Rec'd B	y: d. J. Bailey					1							P	arar	neters							
Sample Login I	By: Of the	in	mele				100		TOC		Diss		TAL				Sulfa	ka				
	⋧ ,५ °c						Vac		''		Arsen	ıi۷	Arsen	iC	TDS	•			ì		1	
	es checked for sulfide & c			(NA	2	_	1				Ira		IN	~			. .				1	
Received in Go	od Condition? Y /		/ (NA)			-{					246				<u> </u>				1		ŀ	
If no, explain:	od Condition;	100				┥ ,													1		ļ	
þ	lectived 2-40m	Ia	rio Blank	<u>3 b</u>	wken	in bog.	Ļ								ĺ		ļ				ļ	
CompuChem	Client ID	ĪQ	Matrix			Military	No. &		No. &		No. &		No. &		No. &	T_	Na. &	1 -	No. &	-	No. &	
ID	Chen ib	Ċ.	IVIALIA	20_	ore 03	Time	Туре	P	Турс	H	Type	P H	Type	P H		н		P H	Type	H		P
G2849-11	CW-MW-115	X	WA	1	120	11:20	9-40m			П	3-5008	,	3-900	4	_	1				\Box		T
	GW-6MW-35				1	1200	3-40		2-40M	Z 2		,	1-5008		1-PL		1-500	1		\Box		\dagger
13	CW-6 MW-8				1	14:20					1-0908		1-500	Н	-		-			† †		+
14	GW-6MW-4	T			1	15:10		_			B. Will	11	1 7001	Н		\vdash				1-1		+
15	GW-6MW-HD				 	15:00	1.		-		X		1,	Н		1		\vdash		+ +	· · · · · · · · · · ·	+
	GTHP Blank	-	1 /		1		Broken	4			/ * -	\vdash	_ <u></u>	Y		\vdash		H		\vdash		+
	TIPDIAL	\vdash	₩		y		DIVINA							Н		\vdash	<u></u>	Н		┼┼		+
Dacul S	GW-MW-115	*	1334	<u> </u>	120	(1)		\vdash	····)	-1		\vdash		\vdash		+-1		+
		N.	w∧_	-	1	12:00					3-500468	 7 	`	-		\vdash		-				+-
	GW-MW 38	├		 .	,	·		\vdash		\vdash	1-800MLA	*		Н		-		H				 —
	GW-6MW 8				/ /	14:20		\square		_		\square						\sqcup				ـــ
	6W-6MW 98	├				15:10				_		Ш								\sqcup		ļ
Y 13	GW-6MW-4D	ļ	<u> </u>		<u>/</u>	15:20		_			<u> </u>	V										_
						<u> </u>				\exists												
	3. T				/	:		١,	-13					_								
		L			1	am	100	4					_									
					14	211						П		\exists						П		
					/	:								_								
					/	:				7				1								Γ
					/	:				\dashv	-			7				\vdash		\vdash		
					7					\dashv				+				#		\exists		
Cor our Tuna	Abbreviations: 40mL(40ml, via	L			DI (Dies		ΔΕι (ΔΔ)		c) : 250P(2								·			1 - 6	dce	نـــ

			а	div	50 50	n oi 1 M Ca	Lib ladi ry, l	erty SOI NC	y Az n A: 27: 3-5(aly ver	tical IUO 3	EIV.	L >.	c	LA	t Nam 1RC r: No.:	1e : 6C	>			<u>-01</u>		10	Tow N'Pox	ress	ccr	ITC	ເ ກ	R.	STC 600	60	σı] 1	DU	y p	onta	068832 The ct : (757) 873 8700
	ВО	X #	1	2. 3. 4.	St. Gr Le	our act	V ex V bi	Vate Vate	er	_	6. 7. 8. 9.	Trip Oil Was Othe	te	S		er Na	#2	A. HCI B. HN(C. Na(D. H2S	Lumi + ice O3 + ice OH + ice 604 + ice reserved	F. Ice G. Ot H. Na	Only ther_ HSO	4 + lc	•	BOX		F.	Filten			В	OX A	4	Pro H. I	mpii pject iigh vledia	ng -spe	con ecifi	mplete? Yo(N) (see Note ic (PS)or Batch (B) QC? Box N6 C. CLP 3/90 T. S. SW-846 W. CWA 800-series O. Other
	- 1	(9	ch:				le I		mu	m)		2042	2002		94.	Metrix	● 1	Pox 82	Box Confitered & Second	Expected Conc.	M4 B	ox #5	No. of Bottles	Use for Lab QC (MS or DUP)	V _C	svoc	Pesticide	Herbicide	Metals / Mercury	Cymride	TOC/TOK	O&G / TPH		S I Can, Archarc	NIII EATO	7 2 2	Remarks / Comment (see Notes 2 & 3)
V-	_	7	_	1	1		2	4	_			1	20	h.	20	2		A.B	F/4		S	\rightarrow	15	<u> </u>	3	5	<u> </u>	<u> </u>	1	S	16	8	- 6	SIE T	16	1	
v - (-	M	γ	_	_		3	-		_		1/	2ø	12:	00	2	ľ	4,BD	Flu		3	5	q		3		+	+	+		2	+	Ή.	4.	+	+	
-6	\rightarrow	4	-	8	<u> </u>	\downarrow	\downarrow	1	\downarrow			1/	ZØ	14:	10	2		4,13	Plu		7	3	5		3	+	+	+	╁	H	۲	-	11	+	#	+	
X - (1	M	_	_	ᄖ	1	1	\downarrow	\bot			1/	246	5 _:	10	2	1	4.B	F/4		. c	;	5		3	\dashv	+	╁	\vdash	H	\dashv	+.	4	+	╀-	ot	
X	4	R	1	8	L	1	1	1	7	N	K	1,	40	:			T	7-			1		2		H	+	+	+-	-	$\vdash \vdash$	-	-	1	+	igspace	-	
6	1	۸.		6	M	W	上		4	p		1	20	15:	20	2	1	4/3	Plu		5	;	5		3	+	+	+-	<u> </u>	-	_	+	4.	+		X	Trip Blanks-
6	M	٧ŀ	Μ	W	١	1	, M	\$	/	S	D			11 2		2	-	+	Plu		S	- 	8			+	+	+	Н	\vdash	4	4	#	\perp		L	Received buren!
			_[T		T	7						+	'-	, V-1		+~	+	1 21		6	+	+	\vdash	4	4	\dashv	12	12	L	Ц	L	GFB 1-21-2
	Γ	T	T			Γ		1	T	7	1	<u> </u>	7		\dashv		\dagger				-	+			-	+	+	\sqcup	_	_	\downarrow	1	L				
	T	1	7				T	†	+	+	+	' ,	\dashv	<u>:</u>	\dagger		+				<u> </u>	+			1	4	\perp		_	_	\bot		L				
cı	ient	ts S	pe:	l :lal:	Ins	tru	ctio	ins:		_				<u>:</u>			L				<u> </u>				\perp	\bot	\perp								\Box		
L	b: F	Rec	eiv	ed	n G	00	d C	one	Hilo		Y	<u>(i)</u>		Desc	ribe	Proble	me	, If any	· Rece	ind		۱ - ۷	Pont	77	Ho	Bk	ما د.	۲.		10				_	 -	 	Temperature 2.4 °c
	_		_			_	-	_	W		Y	<u> </u>				ate: 1/	201	03 #	2 Reling				175		. 1		<u>かし</u> ite:	4		Ke				9.		<u>.</u>	
_	_	any				_		_			MYI N				Ţ		_	15	ompany	Name;							ne:					ished		(Sig			Date:
1464	Re	ceiv	ed i	Bv.	(Sk	Aľ	NΩ	v.	u	. ,	-1	b	√ €		n	ate: \ 7	11.	ചാല്	2 Receive										-4	A 11	<u>y</u>	Name	ř				Time:

Note (1): If "N" lab will hold samples to await remainder of project-maximizing batch size and minimizing QC ratio; if "Y" lab will begin processing batches now.

Note (2): Samples stored 60 days after date report mailed at no extra charge.

Note (3): All lab copies of data destroyed after three years.

FORM 4 VOLATILE METHOD BLANK SUMMARY

Lab Name: COMPUCHEM Contract: 8260B **VBLKRG**

Lab Code: LIBRTY Case No.: SAS No.:

SDG No.: Q2849

Lab File ID: WG22480-2B59_Q

Lab Sample ID: WG22480-2

Date Analyzed: 01/21/03

Time Analyzed: 2142

GC Column: ZB-624 ID: 0.32 (mm)

Heated Purge: (Y/N) Y

Instrument ID: 5972HP59

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
	=======================================	=========	======================================	========
01	VRGLCS GW-6MW-3D	WG22480-5	WG22480-5B59	2233
03	GW-6MW-6	Q2849-1 Q2849-2	Q2849-1B59 Q2849-2B59	0336 0401
04	GW-MW-117	Q2849~3	Q2849-3B59	0426
05	GW-MW-118	Q2849-4	Q2849-4B59	0452
06	GW-MW-118D	Q2849-5	Q2849-5B59	0517
07	TRIPBLANK1-1	Q2849-6	Q2849-6B59	0542
80	GW-6MW-5D	Q2849-7	Q2849-7B59	0608
09 10	GW-6MW-5S GW-6MW-7	Q2849-8 Q2849-9	Q2849-8B59 Q2849-9B59	0633 0658
11	TRIPBLANK1-1	Q2849-10	Q2849-9659 Q2849-10B59	0723
12		22015 10	Q2049 10D35	0723
13				
14				
15				
16 17				
18				
19				
20	· · · · · · · · · · · · · · · · · · ·			
21				
22				
23				
24 25				
26				
27				
28				
29				
30				

COMMENTS:			
			

age 1 of 1

FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKRG Lab Name: COMPUCHEM Method: 8260B Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 02849 Matrix: (soil/water) WATER Lab Sample ID: WG22480-2 Sample wt/vol: 5 (q/ml) ML Lab File ID: WG22480-2B59 Q Level: (low/med) LOW Date Received: % Moisture: not dec. Date Analyzed: 01/21/03 GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0 Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q 75-71-8-----Dichlorodifluoromethane____ 74-87-3-----Chloromethane 75-01-4-----Vinyl Chloride 74-83-9-----Bromomethane 75-00-3-----Chloroethane 75-69-4-----Trichlorofluoromethane 75-35-4-----1,1-Dichloroethene 75-15-0-----Carbon disulfide_ 76-13-1----1,1,2-trichloro-1,2,2-triflu 67-64-1------Acetone 13 U 75-09-2-----Methylene Chloride 55555 55555 156-60-5----trans-1,2-Dichloroethene_ 1634-04-4-----Methyl-tert-butyl ether_ 75-34-3-----1,1-Dichloroethane 156-59-2----cis-1,2-Dichloroethene_ 78-93-3-----2-butanone 13 U 67-66-3-----Chloroform 55555555 ΙU 71-55-6----1,1,1-Trichloroethane U 56-23-5-----Carbon Tetrachloride_ U 71-43-2-----Benzene U 107-06-2----1,2-Dichloroethane 79-01-6-----Trichloroethene U U 78-87-5-----1, 2-Dichloropropane U 75-27-4-----Bromodichloromethane

FORM I VOA

10061-01-5----cis-1,3-Dichloropropene_

108-88-3------Toluene 10061-02-6-----trans-1,3-Dichloropropene

591-78-6----2-hexanone 124-48-1-----Dibromochloromethane

106-93-4-----1,2-Dibromoethane_

U 5

U

U 13 | U

13 U 0.9 J

> 5 U 5 5 U

> 5 U 5 U

FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

					j
Lab Name: COMPUCHEM		Method: 8260B	· _	VBLKRG	_
Lab Code: LIBRTY	Case No.:	SAS No.:	SDG No	o.: Q2849	
Matrix: (soil/water)	WATER	Lab Sa	mple ID: W	NG22480-2	
Sample wt/vol:	5 (g/ml) ML	Lab Fi	le ID: W	NG22480-2B59_0)
Level: (low/med)	LOW	Date R	eceived: _		
% Moisture: not dec.		Date A	nalyzed: 0	01/21/03	
GC Column: ZB-624	ID: 0.32 (mm)	Diluti	on Factor:	: 1.0	
Soil Extract Volume:	(uL)	Soil A	liquot Vol	Lume:	_(uL
CAS NO.	COMPOUND	CONCENTRATIO	N UNITS: Kg) UG/L	Q	
100-41-4 100-42-5 75-25-2 98-82-8 79-34-5 541-73-1 106-46-7 95-50-1 96-12-8 120-82-1 1330-20-7 110-82-7	ChlorobenzeneEthylbenzeneStyreneBromoformIsopropyl Benze1,1,2,2-Tetrach1,3-Dichloroben1,4-Dichloroben1,2-Dichloroben1,2-Dibromo-3-C1,2,4-TrichloroXylene (total)Methyl acetateCyclohexaneMethylcyclohexa	ene		55555555555555555555555555555555555555	

FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

8260B	VBLKRG
SDG	No.: Q2849
Lab Sample ID	: WG22480-2
Lab File ID:	WG22480-2B59_Q

Matrix: (soil/water) WATER

Lab Code: LIBRTY Case No.:

 $5 \qquad (g/ml) ML$

Contract: 8260B

SAS No.:

Level: (low/med)

LOW

Date Received: _____

% Moisture: not dec.

Sample wt/vol:

Lab Name: COMPUCHEM

Date Analyzed: 01/21/03

GC Column: ZB-624 ID: 0.32 (mm)

Number TICs found: 2

Dilution Factor: 1.0

Soil Aliquot Volume: ____(uL

Soil Extract Volume: _____(uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/L

4/1/2

			J	41
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	LABORATORY ARTIFACT	13.48	24.20	
2.	LABORATORY ARTIFACT	14.86	12.04	
3		14.00	12.04	6
4.				
5		— 		
0.				
7		— 		
0.				
9		— .		
0.		 .		
l .				
1. 2.				
3		_ .		
		.		
4		.		
5 6				
		_		
1 -				-
9				
J.				
L _			***	
3		 [-		
		_ -		
J _		- -		
		- -		
7		- -		
		 -		
,		 -		
).		— -		
		-	l	
		1	1	-

FORM I VOA-TIC

FORM 4 VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO

Lab Name: COMPUCHEM

Contract: 8260B

VBLKBT

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: Q2849

Lab File ID: WG22564-8A59 TC4

Lab Sample ID: WG22564-8

Date Analyzed: 01/24/03

Time Analyzed: 1301

GC Column: ZB-624 ID: 0.32 (mm)

Heated Purge: (Y/N) Y

Instrument ID: 5972HP59

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

		LAB	LAB	TIME
	SAMPLE NO.	SAMPLE ID	FILE ID	ANALYZED
	=======================================	=======================================		
01	VCTLCS	WG22564-11	WG22564-11A5	1545
02 03	GW-MW-115	Q2849-11	Q2849-11A59	1758
04	GW-MW-115MS GW-MW-115MSD	WG22479-6 WG22479-7	WG22479-6A59	1823
05	GW-6MW-3S	Q2849-12	WG22479-7A59	1848
06	GW-6MW-8	Q2849-13	Q2849-12A59 Q2849-13A59	1914
07	GW-6MW-4	Q2849-14	Q2849-13A59 Q2849-14A59	1939 2004
08	GW-6MW-4D	Q2849-15	Q2849-15A59	2030
09			22019 131139	2030
10				
11				
12				
13				
14 15				
16				i
17				
18				
19				
20				
21				
22				
23				
24				
25 26				
27				
28				
29				
30				
		·		

COMMENTS:	

age 1 of 1

FORM IV VOA

FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKBT Lab Name: COMPUCHEM Method: 8260B Lab Code: LIBRTY Case No.: SAS No.: SDG No.: Q2849 Matrix: (soil/water) WATER Lab Sample ID: WG22564-8 Sample wt/vol: 5 (g/ml) ML Lab File ID: WG22564-8A59_TC4 Level: (low/med) LOW Date Received: % Moisture: not dec. Date Analyzed: 01/24/03 GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0 Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 0 75-71-8-----Dichlorodifluoromethane___ 5 U 74-87-3-----Chloromethane U 75-01-4------Vinyl Chloride 5 5 5 U 74-83-9-----Bromomethane U 75-00-3------Chloroethane 55555 U 75-69-4-----Trichlorofluoromethane_ U 75-35-4-----1,1-Dichloroethene____ U 75-15-0------Carbon disulfide U $76-13-1-----1,1,2-trichloro-\overline{1,2,2-triflu}$ U 67-64-1-----Acetone 13 U 75-09-2-----Methylene Chloride 5 5 5 5 5 U 156-60-5-----trans-1,2-Dichloroethene U 1634-04-4-----Methyl-tert-butyl ether U 75-34-3-----1,1-Dichloroethane U 156-59-2----cis-1,2-Dichloroethene_ U 78-93-3----2-butanone 13 U 67-66-3-----Chloroform 71-55-6-----1,1,1-Trichloroethane 56-23-5-----Carbon Tetrachloride 71-43-2----Benzene 107-06-2-----1,2-Dichloroethane 79-01-6-----Trichloroethene 78-87-5-----1,2-Dichloropropane 75-27-4-----Bromodichloromethane 10061-01-5----cis-1,3-Dichloropropene_ 108-10-1-----4-Methyl-2-pentanone_ 108-88-3------Toluene 10061-02-6-----trans-1,3-Dichloropropene

FORM I VOA

79-00-5-----1,1,2-Trichloroethane__

124-48-1-----Dibromochloromethane

127-18-4-----Tetrachloroethene_

106-93-4-----1,2-Dibromoethane

591-78-6----2-hexanone

13 U

5 U 5 | U

U

U 5 U

FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

			7777777
Lab Name: COMPUCHEM		Method: 8260B	VBLKBT
Lab Code: LIBRTY	Case No.:	SAS No.: SDG	No.: Q2849
Matrix: (soil/water)	WATER	Lab Sample ID	: WG22564-8
Sample wt/vol:	5 (g/ml) ML		WG22564-8A59_TC4
Level: (low/med)	LOW	Date Received	_
% Moisture: not dec.		Date Analyzed	
GC Column: ZB-624	ID: 0.32 (mm)		
Soil Extract Volume:	(uL)	Soil Aliquot	
	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/	:
100-42-5 75-25-2 98-82-8 79-34-5 541-73-1 106-46-7 95-50-1 96-12-8 120-82-1 1330-20-7 79-20-9	ChlorobenzeneEthylbenzeneStyreneStyreneBromoformIsopropyl Benze1,1,2,2-Tetrach1,3-Dichloroben1,4-Dichloroben1,2-Dichloroben1,2-Dibromo-3-C1,2,4-TrichloroXylene (total)Methyl acetateCyclohexane	ene	55555555555555555555555555555555555555

FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

•	BUINTIARDI IDEMII	FIED COMPOUN	DS	- 1		
Lab Name: COMPUCH		Contract:			VBLKE	i
Lab Code: LIBRTY	Case No.:	SAS No.:		SDG	No.: Q284	9
Matrix: (soil/wat			Lab Sampl			
Sample wt/vol:	5 (g/ml)		Lab File			
Level: (low/med			Date Rece			_
% Moisture: not d	ec.		Date Analy			
	ID: 0.32 (mm				•	
	me:(uL)		Dilution 1			
	(dH)		Soil Aliqu			(
Number TICs found	d: 1	CONCENT (ug/L o	rration un or ug/Kg)	NITS: ug/L		برارا
CAS NUMBER	COMPOUND	NAME	RT	ES	r. conc.	0
1.	LABORATORY ARTIF		====== 14.86	====	====== 17.51	=====
2						
4						
6						
8.						
10.						
11. 12.						
15.						
17.						
18.						
20.						
21.						
23.						
25. 26.						
27.						
28.						
30						

FORM I VOA-TIC

FORM 5 VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK BROMOFLUOROBENZENE (BFB)

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: Q2849

Lab File ID: BF030109A59

BFB Injection Date: 01/09/03

Instrument ID: 5972HP59

BFB Injection Time: 1051

GC Column: ZB624 ID: 32.00 (mm)

Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50 75 95 96 173 174 175 176	15.0 - 40.0% of mass 95 30.0 - 60.0% of mass 95 Base Peak, 100% relative abundance 5.0 - 9.0% of mass 95 Less than 2.0% of mass 174 Greater than 50.0% of mass 95 5.0 - 9.0% of mass 174 95.0 - 101.0% of mass 176	18.3 40.7 100.0 6.6 0.0 (0.0)1 74.1 5.4 (7.3)1 73.4 (99.0)1 4.8 (6.6)2
	1-Value is % mass 174 2-Value is % mass	176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	I TIDA	T 3 7			
	EPA	LAB	LAB	DATE	TIME
	SAMPLE NO.	SAMPLE ID	FILE ID	ANALYZED	ANALYZED
	=======================================	=======================================	=======================================	========	========
01	VSTD005	VSTD005	GS030109A59	01/09/03	1133
02	VSTD010	VSTD010	GT030109A59	01/09/03	1158
03	VSTD020	VSTD020	GU030109A59	01/09/03	
04	VSTD050	VSTD050	GV030109A59	01/09/03	1224
05	VSTD100	VSTD100	GW030109A59	01/09/03	1249
06	VSTD200	VSTD200		01/09/03	1314
07	V51D200	V31D200	GX030109A59	01/09/03	1340
08					
09					
10					
11					
12		_			
13					
14					
15					
16					
17					
18			·		
19					
20					
21					
22					
	·				
ige 1 of i	L		,		

FORM V VOA

FORM 5 VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK BROMOFLUOROBENZENE (BFB)

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: Q2849

Lab File ID: BF030121B59

BFB Injection Date: 01/21/03

Instrument ID: 5972HP59

BFB Injection Time: 2059

GC Column: ZB624 ID: 32.00 (mm)

Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50 75 95 96 173 174 175 176	15.0 - 40.0% of mass 95 30.0 - 60.0% of mass 95 Base Peak, 100% relative abundance 5.0 - 9.0% of mass 95 Less than 2.0% of mass 174 Greater than 50.0% of mass 95 5.0 - 9.0% of mass 174 95.0 - 101.0% of mass 174 5.0 - 9.0% of mass 176	23.0 43.3 100.0 6.9 0.0 (0.0)1 72.8 5.2 (7.1)1 70.5 (96.9)1 4.7 (6.6)2
	1-Value is % mass 174 2-Value is % mass	176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

SAMPLE NO.	59_Q 01/21/03 2142 59_Q 01/21/03 2233 01/22/03 0336 01/22/03 0401 01/22/03 0452 01/22/03 0517 01/22/03 0542 01/22/03 0608 01/22/03 0633 01/22/03 0658
------------	--

FORM V VOA

FORM 5 VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK BROMOFLUOROBENZENE (BFB)

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: Q2849

Lab File ID: BF030124A59

BFB Injection Date: 01/24/03

Instrument ID: 5972HP59

BFB Injection Time: 0928

GC Column: ZB624 ID: 32.00 (mm)

Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50 75 95 96 173 174 175 176	15.0 - 40.0% of mass 95 30.0 - 60.0% of mass 95 Base Peak, 100% relative abundance 5.0 - 9.0% of mass 95 Less than 2.0% of mass 174 Greater than 50.0% of mass 95 5.0 - 9.0% of mass 174 95.0 - 101.0% of mass 174 5.0 - 9.0% of mass 176	22.1 42.6 100.0 6.6 0.0 (0.0)1 75.0 5.0 (6.7)1 71.3 (95.1)1 4.7 (6.6)2
	1-Value is % mass 174 2-Value is % mass	176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	I ————————————————————————————————————				
	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME
0.7	==========	=========	=======================================	ANALIZED	ANALYZED
01 02	VSTD050 VBLKBT	VSTD050 WG22564-8	GS030125A59 WG22564-8A59 T	01/24/03	1109
03	VCTLCS	WG22564-11	WG22564-11A59	01/24/03 01/24/03	1301 1545
04 05	GW-MW-115 GW-MW-115MS	Q2849-11 WG22479-6	Q2849~11A59 — WG22479-6A59	01/24/03	1758
06	GW-MW-115MSD	WG22479-7	WG22479-6A59 WG22479-7A59	01/24/03 01/24/03	1823 1848
07 08	GW-6MW-3S GW-6MW-8	Q2849-12 Q2849-13	Q2849-12A59 Q2849-13A59	01/24/03	1914
, 09	GW-6MW-4	Q2849-14	Q2849-14A59	01/24/03 01/24/03	1939 2004
10 11	GW-6MW-4D	Q2849-15	Q2849-15A59	01/24/03	2030
12					
13 14					
15					
16 17					
18					
19 20					
21 22					
је 1 of 1	-				

FORM V VOA

FORM 7B VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM

Contract: 8260B

ab Code: LIBRTY Case No.:

SAS No.: SDG No.: Q2849

Instrument ID: 5972HP59 Calibration Date: 01/21/03 Time: 2117

Lab File ID: GS030121B59 Init. Calib. Date(s): 01/09/03 01/09/03

Init. Calib. Times: 1133 1340

GC Column: ZB-624 ID: 0.32 (mm)

COMPOUND	RRF or	or	CCAL	MIN	%D or	MAX %D or	CURV
	AMOUNT	AMOUNT	RRF50	RRF	%DRIFT	%DRIFT	TYPE
				1	======	========	
ichlorodifluoromethane	0.4920000	0.5323411	0.5323411	0.001	8.20	90.00	
hloromethane	0.2470000	0.2415070	0.2415070	1 0.1	-2 22		
inyl Chloride	0.2050000	0.2090026	0.2090026	0.001	1.95		
romomethane	0.2480000	0.2865364	0.2865364	0.001	15.54		
hloroethane	0.0890000	0.0928866	0.0928866	0 001	4.37		
richlorofluoromethane	0.6050000	0.6170319	0.6170319	0.001	1.99		
,1-Dichloroethene	0.2410000	0.2534785	0.2534785	lo.oor i	5.18		
arbon disulfide	In azonono	0 9248642	0 0240642	أممم أ			. ,
,1,2-trichloro-1,2,2-triflu	0.4300000	0.4500187	0.4500187	ו בחח ח	4.66	90.00	
cecone	628.70038	625.00000	0.0443402	0.001	0.59	90.00	AVKG
ethylene Chloride	0.2680000	0.2785478	0.2785478	0.001	3.94		
rans-1,2-Dichloroethene	0.2640000	0.2667053	0.2667053	0.001	1.02	90.00	
ethyl-tert-butyl ether	0.6960000	0.6191970	0.6191970	0.001	-11.03	90.00	,
1-Dichloroethane	0.4060000	0.3904266	0.3904266	0.1		90.00	
-1,2-Dichloroethene	0.2900000	0.2878508	0.2878508	0.1	-3.84	90.00	
putanone	635.12748	625 00000	0.0667631	0.001	-0.74	90.00	
hloroform	0.5740000	0.5396758	0.5396758	0.001	1.62	90.00	
,1,1-Trichloroethane	0.5560000	0.4949877	0.4949877	0.001	-5.98	20.00	
arbon Tetrachloride	0.5390000	0.4630996	0.4630996	0.001	-10.97	90.00	
enzene	0.8350000	0.8458789	0.8458789	0.001		90.00	
,2-Dichloroethane	0.3860000	0.3200522	0.3200522	0.001	1.30	90.00	
richloroethene	0.2300000	0.3200322	0.2398167	0.001	-17.08	90.00	- 1
,2-Dichloropropane	0.1960000	0.2330107	0.1844228	0.001	4.27	90.00	
romodichloromethane	0.4240000	0.1011220	0.3779694	0.001	-5.91	20.00	
is-1,3-Dichloropropene	0.3850000	0.3773034	0.3651922	0.001	-10.86	90.00	
-Methyl-2-pentanone	0.2360000	0.3051922	0.2395985	0.001	-5.14	90.00	
oluene	0.2300000	0.2333333	0.2395985	0.001	1.52	90.00	
rans-1,3-Dichloropropene	0.5830000	0.5150371	0.5117167	0.001	-1.54	20.00	
,1,2-Trichloroethane	0.3600000	0.311/10/	0.3609267	0.001	-12.23	90.00	•
etrachloroethene	0.3690000	0.3003267	0.4012082	0.001	0.26	90.00	
-hexanone	0.1680000	0.4012002	0.1601201	0.001	8.73	90.00	
ibromochloromethane	0.5910000	0.1001201	0.5435285	0.001	-4.69	90.00	
,2-Dibromoethane	0.43200001	0.34352831	0.4116702	0.001	-8.03	90.00	
llorobenzene	0.9720000	0.4110702	0.4116702		-4.70	90.00	
:hylbenzene	0.4780000	0.3413303	0.4468667	0.3	-3.13	90.00	
:yrene	1 0320000	0.440000/	0.9120219	0.001	-6.51	20.00	
-0110101111	0.4340000	0.3120213	0.9120219		-11.62	90.00	
sopropyl Benzene	1 6860000	1 5102277	1.5192377	0.1	2.21	90.00	
,1,2,2-Tetrachloroethane	0.8780000	1.2563221	1.2137377		-9.89	90.00	
	1 5720000	1 4306000	1.4306808	0.3	-12.65	90.00	
4-Dichlorobenzene	1 6210000	1 4803640	1.4306808	0.001	-8.99	90.00	
	1.4420000	1 2222212	1.4893542 (1.3332912 (0.001	-8.12	90.00	AVRG
		1.3332312	1.3332912	0.001	-7.54	90.00	AVRG
1 of 2	 I.						
	Ţ	ORM VII	ערטע			3	36I
	-	ATT	· OA			_	

FORM 7B VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: Q2849

Instrument ID: 5972HP59 Calibration Date: 01/24/03 Time: 1109

Lab File ID: GS030125A59 Init. Calib. Date(s): 01/09/03 01/09/03

Init. Calib. Times: 1133 1340

GC Column: ZB-624 ID: 0.32 (mm)

	1	RRF50		1	i		
COMPOUND	RRF or	or	CCAL	MIN	%D or	MAX %D or	CURV
	AMOUNT	AMOUNT	RRF50	RRF	%DRIFT	%DRIFT	TYPE
. = = = = = = = = = = = = = = = = = = =			=======================================		======	========	====
ichlorodifluoromethane	0.4920000	0.5421594		0.001	10.20	90.00	!
hloromethane		0.2510235	0.2510235	0.1	1.63	90.00	_
inyl Chloride	0.2050000	0.2060198	0.2060198	0.001	0.50	20.00	, –
romomethane		0.2527513	0.2527513	0.001	1.92	90.00	1
hloroethane	0.0890000	0.0878911	0.0878911	0.001	-1.24	90.00	! -
richlorofluoromethane	0.6050000	0.6770654	0.6770654	0.001	11.91	90.00	ł
,1-Dichloroethene		0.2330166	0.2330166	0.001	-3.31	20.00	
arbon disulfide	0.9200000	0.8291021	0.8291021		-9.88	90.00	
,1,2-trichloro-1,2,2-triflu	0.4300000	0.3737410	0.3737410	0.001	-13.08	i	AVRG
cetone	572.24178	625.00000	0.0405248	0.001	-8.44	90.00	
ethylene Chloride	0.2680000	0.2815716	0.2815716		5.06	90.00	
rans-1,2-Dichloroethene_		0.2610676	0.2610676	0.001	-1.11	90.00	
ethyl-tert-butyl ether	0.6960000		0.6030309		~13.36	90.00	
,1-Dichloroethane		0.3942011	0.3942011	0.1	-2.91	90.00	
is-1,2-Dichloroethene	0.2900000	0.2927664	0.2927664	0.001	0.95	90.00	
-butanone	586.34929	625.00000	0.0618777	0.001	-6.18	90.00	
hloroform	0.5740000	0.5519930	0.5519930		-3.83	20.00	
,1,1-Trichloroethane	0.5560000		0.4757958		-14.42	90.00	
arbon Tetrachloride			0.4294168		-20.33	90.00	
enzene	0.8350000	0.8376675	0.8376675	0.001	0.32	90.00	
,2-Dichloroethane	0.3860000	0.3218400	0.3218400	0.001	-16.62	90.00	
richloroethene	0.2300000	0.2372686	0.2372686	0.001	3.16		AVRG
,2-Dichloropropane	0.1960000	0.1994778	0.1994778	0.001	1.77	20.00	
romodichloromethane	0.4240000	0.3892176	0.3892176	0.001	-8.20	90.00	
is-1,3-Dichloropropene	0.3850000	0.3713317	0.3713317		-3.55	90.00	_
-Methyl-2-pentanone	0.2360000	0.2097398	0.2097398		-11.13	90.00	
oluene	0.9340000	0.8998088	0.8998088	0.001	-3.66	20.00	
rans-1,3-Dichloropropene	0.5830000	0.5119263	0.5119263		-12.19	90.00	
,1,2-Trichloroethane	0.3600000		0.3526338		-2.05	90.00	
etrachloroethene	0.3690000	0.3801399	0.3801399	0.001	3.02		
-hexanone	0.1680000		0.1439167		-14.34	90.00	
ibromochloromethane	0.5910000		0.5363899		-9.24	90.00	
,2-Dibromoethane	0.4320000	0.3862763	0.3862763		-10.58	90.00	
nlorobenzene	0.9720000	0.9224477	0.9224477	0.3	-5.10	90.00	
thylbenzene	0.4780000		0.4375418		-8.46	90.00	
tyrene	1.0320000		0.9206453		-10.79	20.00	
comoform	0.4340000		0.4209752	0.001		90.00	
sopropyl Benzene	1.6860000			0.001	-3.00 -12.90	90.00	
.1,2,2-Tetrachloroethane	0.8780000	0.7057116	0.7057116	0.001		90.00	
.3-Dichlorobenzene	1.5720000		1.4048988		-19.62	90.00	
4-Dichlorobenzene	1.6210000	1 4438397		0.001	-10.63	90.00	
2-Dichlorobenzene	1.4420000	1.3016084		0.001	~10.93 -9.74	90.00 90.00	
ge 1 of 2							
J OL 2							

A Division of Liberty Analytical Corp.

501 Madison Avenue Cary, NC 27513

INORGANIC CASE SUMMARY NARRATIVE SDG# Q2849 CONTRACT # SW-846

The indicated Sample Delivery Group (SDG) consisting of thirteen (13) water samples was received into the laboratory management system (LMS) on January 15, 16, 21, 2003 in good condition with Chain of Custody (COC) Records in order, unless otherwise noted in any attachments or Quality Assurance Notices. Sample ID's reported in this data package are noted by the receiving department on the COC if they differ from those listed by the samplers on the COC.

The samples were analyzed for arsenic and iron using methods delineated in the SW-846 update III.

INSTRUMENTAL QUALITY CONTROL:

All calibration verification solutions (ICV & CCV), blanks (ICB, CCB) and interference check samples (ICSA & ICSAB) associated with this data were confirmed to be within SW-846 allowable limits.

SAMPLE PREPARATION QUALITY CONTROL:

The sample preparation procedure verifications (LCSW & PBW) were found to be within acceptable ranges and all field samples were prepared and analyzed within the contract specified holding times.

MATRIX RELATED QUALITY CONTROL:

The sample matrix spike WG22538-1 (GW-MW-115S) was inside control limits for all requested analytes. The sample matrix spike duplicate, WG22538-2 (GW-MW-115SD) was inside control limits for all requested analytes.

SW-846 control limits for matrix spike recoveries are set at 75% to 125% of the analyte quantity added unless original sample concentrations exceed the true values of these "spikes" by a factor of four or more; in this case effected analytes are not flagged even if recoveries fall outside percentage recovery control limits.

The sample matrix duplicate, WG22538-3 (GW-MW-115D) was inside control limits for all requested analytes.

SW-846 control limits for duplicate determinations are +/- 20% Relative Percent Difference (RPD) for concentrations greater than or equal to five times the CRDL in both the original and duplicate samples, and +/- the CRDL for concentrations less than five times the CRDL. The RPD is not calculated if both the original and duplicate values fall below the IDL.

A five-fold serial dilution of sample, Q2849-11 (GW-MW-115L) was performed in accordance with SW-846 requirements for ICP analysis.

The adjusted sample concentrations were inside control limits for all requested analytes.

SW-846 control limits for serial dilution are defined as a deviation less than or equal to 10% in the dilution-adjusted concentrations from the original values for all analyte concentrations with values greater than fifty (50) times their respective Instrument Detection Limit (IDL) in the original sample.

Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Inorganic Case Auditor

January 28, 2003

Note: This report is paginated for reference and accountability.

3

BLANKS

TAD NAME: COMPUC	HEM		Contra	ct: _					
Lab Code: <u>LIBR</u> T	Y Case No	.:	SAS No.:	-,	s	DG N	o.: <u>R2849</u>		
Preparation Blank Preparation Blank			*	UG/L					
	Initial Calib. Blank	С	ontinuing Cal Blank (ug/		.on		Preparation Blank		
Analyte	(ug/L) C	1 c	2	С	3	С		С	м
Arsenic	3.6 U	3.6 0	3.6	ַ	3.6	Ū	3.600	U	P
Iron	15.0 U	22.1 B	15.0	U	21.5	В	15.000	U	P

3

BLANKS

ab Name: COMPUC	HEM				Contra	ct:					
Lab Code: <u>LIBR</u>	Y Cas	e No.:			SAS No.:		s	DG N	o.: R2849		<u>-</u> .
Preparation Blank Preparation Blank	•	•		ATER or mg		UG/	'L				
Analyte	Initial Calib. Blank (ug/L)	c	¥ 2	Con	tinuing Cal Blank (ug/		tion (c	Preparation Blank	C	м
Arsenic			3.6	ן ט	3.6		3.6		1	1	P
Iron			19.5	B	23.0	Bl	21.4	В		ī	P

3

BLANKS

Lab Name: COM	PUCHEM				Contr	act:			:		
Lab Code: <u>LI</u>	BRTY Ca	se No.	:		SAS No.:			SDG N	o.: R2849		
Preparation Bl	ank Matrix (so	oil/wat	er):	WATER							
Preparation Bl	ank Concentrat	tion Un	its (ug/L	or mg	/kg) :	UG/	L				
Analyte	Initial Calib. Blank (ug/L)	С	7/1		inuing Ca Blank (ug		ion 3	С	Preparation Blank	С	м
Arsenic		1 1	3.6	וטן	3.6	ן ט				i	P
Iron			30.4	B	15.0	ט וי		i	1	┼	l P

a Division of Liberty Analytical Corp.

501 Madison Avenue Cary, NC 27513

INORGANIC CASE SUMMARY NARRATIVE SDG # R2849 PROTOCOL #SW-846

The indicated Sample Delivery Group (SDG) consisting of thirteen (13) dissolved water samples was received into the laboratory management system (LIMS) on January 15, 16, and 21, 2003 intact and in good condition with Chains of Custody (COC) records in order. Sample ID's reported in this data package are noted by the receiving department on the COC if they differ from those listed by the samplers on the COC.

The samples were analyzed for dissolved arsenic and iron using analytical methods delineated in SW-846 (Third Edition)-Update III.

SAMPLE IDs:

Customer IDs and correlating laboratory IDs are listed on the cover page.

INSTRUMENTAL QUALITY CONTROL:

All calibration verification solutions (ICV & CCV), blanks (ICB, & CCB), and interference check samples (ICSA & ICSAB) associated with this data were confirmed to be within SW-846 allowable limits.

DISSOLVED SAMPLE QUALITY CONTROL:

The sample quality control verifications (LCSW & PBW) were found to be within acceptable ranges and all dissolved samples were analyzed within the contract specified holding times.

SAMPLE PREPARATION QUALITY CONTROL:

41/13

The mercury_sample preparation procedure verifications (LCSW & PBW) were found to be within acceptable ranges and all field samples were prepared and analyzed within the contract specified holding times.

MATRIX RELATED QUALITY CONTROL:

The sample matrix spike, CCN = WG22539-1 (GW-MW-115S) and the sample matrix spike duplicate, CCN = WG22539-2 (GW-MW-115SD) were found to be inside control limits for the requested analytes.

SW-846 control limits for matrix spike recoveries are set at 75% to 125% of the analyte quantity added unless original sample concentrations exceed the true values of these "spikes" by a factor of four or more. In this case, affected analytes are not flagged even if recoveries are outside percentage recovery control limits.

The sample matrix duplicate, CCN = WG22539-3 (GW-MW-115D) was inside control limits for the requested analytes.

SW-846 control limits for duplicate determinations are +/- 20% Relative Percent Difference (RPD) for concentrations greater than or equal to five times the PQL in both the original and duplicate samples, and +/- the PQL for concentrations less than five times the PQL. The RPD is not calculated if both the original and duplicate values fall below the IDL.

A five-fold serial dilution of sample, CCN = R2849-9 (GW-MW-115L) was performed in accordance with SW-846 requirements for ICP analysis.

The adjusted sample concentrations were inside control limits for the requested analytes.

SW-846 control limits for serial dilution are defined as a deviation less than or equal to 10% in the dilution-adjusted concentrations from the original values for all analyte concentrations with values greater than fifty (50) times their respective Instrument Detection Limit (IDL) in the original sample.

The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Thomas R. Cole Data Reviewer II January 27, 2003

2B-1N

CRDL STANDARD FOR AA AND ICP

	Contract:										
Lah	Code:	LIBRTY	Case N	io.:	SAS No.:		SDG	No.:	R2849	 	
AA	CRDL Sta	indard Sour	ce:		"						
ICP	CRDL S	andard Sou	rce:	HIPUR							
				C	oncentration Un:	its: ug/L					
							CRDL Sta	ndard i	for ICP		
- 1						In:	itial		Fina	1	
	Ana	lyte	True	Found	%R	True	Found	%R	Found	%R	

10.0

100.0

9.35

112.67 112.7

Control Limits: no limits have been established by EPA at this time

Arsenic

Iron

14

ANALYSIS RUN LOG

Lab Name: COMPUCHEM	Contract:
Lab Code: LIBRTY Case No.:	SAS No.: SDG No.: R2849
Instrument ID Number: P3	Method: P
Start Date: 01/24/03	End Date: 01/24/03

EPA Sample No.	5/5	m 4	Analyte						ytes																		
	D/F	Time	8 R	A		A S	B A	B E	C	C A	C R	C O	C		P B			н G	N	ĸ	S E	A G	N A	T L	v	Z N	1
S0	1.00	0936				х	\vdash	\vdash	-	Н		\dashv		х		 	-		<u> </u>	\vdash	1	<u> </u>	<u> </u>		<u> </u>		-
S	1.00	0945					 							^					_	<u> </u>		_			L		H
S	1.00	0952			_							Н	ᅱ	x				<u></u> _	-	-	-			ļ	_	<u> </u>	H
S	1.00	0957		П		х					-		┈╁	귀			H			_	 	_	Н				\vdash
S	1.00	1004						Н	_	H	-		+	-†	\dashv	_		_					Щ				_
S	1.00	1009	-									\dashv	ᆉ	┪						_			Щ				_
ICV	1.00	1016	 -		i					H		ᅥ		x											-		_
ICV	1.00	1024					_						ᆉ	싂	-1	_	_										_
ICV	1.00	1032				X	\dashv	\neg	_	\vdash								_									_
ICB	1.00	1040			\neg	X	-	_	_		-1	4	\dashv	\mathbf{x}	-1	-	-						_		_	_	_
ZZZZZZ	1.00	1049	_	H	긤		ᅥ	\dashv	4		ᆛ	<u>_</u>	\dashv	쉬	┥		-	_					_		긕	1	_
ICSA	1.00	1057		$\vdash \vdash$		<u> </u>	+	\dashv			ᅥ	-+	+	 x		{		_		ل			_		-	_	
ICSAB	1.00	1109		-		x	\dashv		_	\dashv	\dashv	-+	-	^ x	1			_		_	-	-	!	-	\dashv	-	
CCV	1.00	1117				x		+		\dashv	-+	\dashv		x	井			긕				_					_
ССВ	1.00	1126		\dashv	\dashv	X	-		ᅱ	-+	-	-+		+	\dashv		\dashv	\dashv				4	4	4	4	-	
LRS		1134			_	$\frac{x}{x}$	-+	ᆉ	4	- +	\dashv	-+	-	X	\dashv	\dashv		_	ᆛ		ᆛ	_	4	4	4		_
222222	1.00	1143		+	-		+	\dashv			-	_	\dashv	X	+	4	+		\dashv					_		4	_
ZZZZZZ		1151		-+	_	十	{	\dashv	4		-+		\dashv	+	+	-1	+				_	\dashv	-	4	-	\dashv	_
ZZZZZZ		1200		\dashv		+	+	\dashv	4		\dashv	1	+	+	-+	-		\dashv	\dashv	_¦	\dashv	4		1		4	
ZZZZZZ		1208				ᆉ	寸	\dashv	ᆉ	十	\dashv	+	+	+	+	+	+	-	+	ᆛ	_¦	-1	+		-	4	_
ZZZZZZ	1.00	1216		1	-	-+	+	-	ᅥ	\dashv	\dashv	+	+	\dashv	+	ᆉ	+	-	_{	ᆛ	+		4	ᆛ	4	\dashv	_
ZZZZZZ	1.00	1225		+	\dashv	-+	+	ᅥ	-+	十	+	ᅷ	+	-	+	-+	+		-	4	-+	-	4		+	4	
ZZZZZZ	 +	1233		-+	寸	\dashv	+	\dashv	ᅻ	+	+	+	+	+	+	-	+	+	-	4	-	\dashv			-		
ZZZZZZ		1241		7	十	ᆉ	-+	+	+	十	\dashv	ᅷ	+	+	+	+	+	\dashv	+	4		4	-	-+	4	4	_
ZZZZZZ		1250		┪	\dashv		╌┼	十	+	+	+	+	┿	+	+	+	+	\dashv	4	+	\dashv	4	+	+		+	_
ccv		1258		\dashv	+	$\frac{1}{x}$	\dashv	\dashv	. +		-	+	+,	+	+	+	+	ᆛ	+	<u>-</u>	4	4	4	+	4	+	_
CCB		1306		+	- +	x	+	+	ᅻ	+	+	+				+	+	+	-	4		-		+		4	-
ZZZZZZ	1.00			十	 -	+	-	\dashv	+	-+	+	+	+	4	\dashv	+	+	ᆛ	4			+	+	+	1	+	
ZZZZZZ		1323		+	+	\dashv	-+	-+		+	+	\pm	+	+	+	+	+	+	+	+	+	+	4	+	\dashv	4	_
ZZZZZZ	1.00		I	十	+	+	-+	+	+	+	_	+	+	+	+	+	+	+	+	4	4	+	+	4	4	4	-
ZZZZZZ	1.00			\dashv	\dashv	+	+	+	+	+	+	+	-	+	+	+	+	+	+	-	+	_	+	-+	4	+	
ZZZZZZ	1.00			+	+		十	┰	+	+	+	+	+	+	+	+	+	-	-	.		+	4	+	4	- -	_
ZZZZZZ	1.00			+	+	+	╁	+	+		+	+	+	+	-	+	+			-	+	4	_	4	4	+	_
ZZZZZZ	1.00			十	+	-+	+	+	-뉴	- -	+	+	+	+	+	+	+	+	\dashv	4	1	+	4	4	+	_	_
ZZZZZZ	1.00			+	+	-	-	+	+	+	+	+	+	+	+	+	4	_	4	\downarrow	4	_	_ļ_	4	4	\downarrow	_
ZZZZZZ	1.00			+	+		+	+	+	+	+	+	+	+	+	4	+	+	4	4	4	\downarrow	+	+	4	4	_
ZZZZZZ	1.00			+	+		+	+	+		+	+	+	+	十	\perp	+	4	+	4		_	4	- -	4	4	_
CCV	1.00			+		ĸ		+	+	<u>-</u> -	+	+	+	4	+	\perp	+	+	\perp	4	4	4	4	4	4	4	_
	1.00	-174	<u></u>			<u> </u>		_L	\bot	⅃.		\perp	X			1					- 1	-	34	,		-	

SW-846 METALS

14

ANALYSIS RUN LOG

Lab Name: COMPUCHEM		Contract:	
Lab Code: LIBRTY	Case No.:	SAS No.:	SDG No.: R2849
Instrument ID Number: P3		Method:	p
Start Date: 01/24/03		End Date:	01/24/03

EPA														Ana	ly	tes	,										
Sample No.	D/F	Time	% R	A L	S B	A S	B	B E	C	C A	C R	C 0	C C	F	P B		M	H G	N	ĸ	S E	A G	N A	T L	V	Z N	C
CCB	1.00	1451				Х								X													
ZZZZZZ	1.00	1459				$\int_{-\infty}^{\infty}$																					
22222	1.00	1508																									_
ZZZZZZ	1.00	1519																									
ZZZZZZ	1.00	1527																			1						_
ZZZZZZ	1.00	1536																									_
ZZZZZZ	1.00	1544											Ī								Ī						
ZZZZZZ	1.00	1552											İ								Ī						Γ
22222	1.00	1601						Ī		1	l		Ī								Ī						_
ZZZZZZ	1.00	1609		Γ			1			Ī	<u> </u>	Γ									Ī						_
ZZZZZZ	1.00	1617	<u> </u>			Ī	Ī		Π		Ī	Π	1							<u> </u>	Ī			П	П		_
CCV	1.00	1626				х	i	İ		Ī		T		х							Ì						_
CCB	1.00	1634	<u> </u>			х	Ī		Γ		<u> </u>			х							1				-		_
ZZZZZZ	1.00	1643						İ					İ								Ī						_
ZZZZZZ	1.00	1651		İ				Ì	İ	i			İ								i i						_
ZZZZZZ	1.00	1659		İ	Ì	1	Ī	1	1	<u> </u>			Ī								İ	<u> </u>					
ZZZZZZ	1.00	1708		İ			Ì	i -			i	ļ	i								i						_
ZZZZZZ	1.00	1716		İ		Ì															i						
ZZZZZZ	1.00	1724					i .	<u> </u>		İ	\ 										Ì						
ZZZZZZ	1.00	1733	<u> </u>				i	İ		Т						-					ì	<u> </u>					
ZZZZZZ	1.00	1741				Г	İ		Ì		1									 	Ì				_		
ZZZZZZ	1.00	1749				İ	i -			İ	Ì	İ									Ì						_
ZZZZZZ	1.00	1758	1			İ	i	İ		T						<u> </u>		<u> </u>	_		ī						
CCV	1.00	1806		1-		х	i	i		i :		Ì		х	ļ				<u> </u>	İ	1						_
CCB	1.00	1814	i .	Π		x	i			П				х				_			i						Γ
ZZZZZZ	1.00	1823		İ	Ì		Ì	Ī	Ī	1		Τ	i	Ì							 						Γ
ZZZZZZ	1.00	1831		1		1				i	ı		1								ī						Г
ZZZZZZ	1.00	1840				1	İ			i	<u> </u>									<u> </u>	i	<u> </u>					Γ
ZZZZZZ	1.00	1848		1			i	1	T	1	<u> </u>	\vdash					 			<u> </u>	i	 			-		Γ
ZZZZZZ	5.00	1856	1	1	<u> </u>	Ĺ	i	T		Ì		\vdash	i	<u> </u>			<u> </u>	<u> </u>		┪	i						Ī
PBW	1.00	1905	1	Ì		x	1	T	T	i	Ī		 	x		 		ļ	l –	İ	1	\vdash					i
LCSW		1913	1	T	_	x	i	ļ	ĺ	i	1	1	Ì	х						Г	 	\vdash					Γ
GW-MW-115		1921	1		i	x	┪		一	 	\vdash		i —	х	L	 			-		 		i				Г
GW-MW-115S		1930	i	1		x	1			T		1	T	х		Ī	T			\vdash	1	1			<u> </u>		Γ
GW-MW-115SD		1938	—	╁		x	i	1	T	T		1-	i	x			1	<u> </u>	<u> </u>		 	\vdash					Г
CCV		1946	<u> </u>	T	1	x	\vdash	T	T	\vdash		T	\vdash	x	\vdash	 	i –	 -	ļ	1	1	1					İ
CCB		1955	 		<u>ϯ</u>	х	i	T	1	T	İ	1	Ĺ	x	T	Г	T	İ	T	T	1	1	 	<u> </u>			Г
GW-MW-115D	!	2003	 	1	 	x	i	1		Ħ	\vdash	T	1	x	-	T			1	<u> </u>	╁	\vdash		ļ		1	
			.			ــــــ	•	1		1	ــــــــــــــــــــــــــــــــــــــ	1	1			1		1			т_		13	8	ш.		

SW-846 METALS

14

ANALYSIS RUN LOG

Lab Name:	COMPUCHEM		Contract:			
Lab Code:	LIBRTY	Case No.:	SAS No.:		SDG No.:	R2849
Instrumen	t ID Number: P3		Method:	P		
Start Date	e: 01/24/03		End Date:	01/24/02		

EPA Sample	5.5												Д	na	lyt	es	3									
No.	D/F	Time	% R	A L	S B		B	B E	C D	C A	C R	C 0	C		P B		M N		N	ĸ	S E	A G	N A	T L		Z C
GW-MW-115L	5.00	2012		М		x						-	+	x l	╅	┥	-			┝	_	<u> </u>			+	+
GW-6MW-3D	1.00	2020				х					\dashv		\rightarrow	x	十	ᅥ		\dashv	Н	_	L	<u> </u>	H	\dashv	\dashv	+
GW-6MW-6	1.00	2028		П		х			-		一	-	_	<u>^</u> x	ᆉ	ᅥ	+	-	Н		┞		Н	\dashv	\dashv	+
GW-GW-117	1.00	2037				х						ᅥ		^ I x I				{			<u> </u>	<u> </u>		-+	井	+
GW-GW-118	1.00	2045				x				╌╏				x	-+	+	+	┥		Щ	H		1		+	+
GW-GW-118D	1.00	2053			\neg	x	ᅵ					-		x	\dashv	ᅥ	ᅱ	ᆛ	-		L	_		ᆉ	+	+
ZZZZZZ	1.00	2102			_	7	一	\dashv	ᅥ	7	寸	-	+	꾺	\dashv	┪	-	-	-	Щ	Н		+	+	+	+
ZZZZZZ	1.00	2110		H	\dashv	1		$\neg \dagger$	_	ᆉ	\dashv	ᆛ	+	十	+	-	ᆉ	-	_			_	4	井	+	+
ZZZZZZ	1.00	2118				Ti				\dashv	┪	+	\dashv	╅	\dashv	+	+	+	\dashv	_	Щ		ᆛ	+	+	
CCV	1.00	2127		H		$\overline{\mathbf{x}}$	7	_		-+	-	ᅥ	+,	ĸ	\dashv	+	+	┥	ᅥ	4	Н	Н	+	-	\dashv	+-
CCB	1.00	2135				x		\dashv	+	ᆉ	十	ᆉ		<u>c</u>	+	\dashv	-	┥	┥	_	Щ	_	ᅻ	\dashv	+	+
GW-6MW-5D	1.00	2143			<u></u> +	$\frac{1}{x}$	1		-					(+	+	ᅱ	\dashv	-				+	+	+	+
GW-6MW-5S	1.00	2152		1		x l	+	┪	- 1	+	+		_	<u>`</u>	-	+	井	+		4			4	\dashv	+	+
GW-6MW-7	1.00	2200			-1	$\frac{1}{x}$	寸	_	1	ᆉ	十	十	-	?	 - -	+	+						4	-+	+	
GW-6MW-3S	1.00	2208				$\frac{1}{x}$	~-†	ᆉ	1	-+	\dashv	+		<u> </u>	-	+		\dashv	4			ᆛ	<u>-</u> +	+		+
GW-6MW-8	1.00	2217		+		$\frac{1}{x}$	+	_	+	\dashv	+		 ;	÷	-		\dashv	\dashv	+		{	_		+	+	+
GW-6MW-4	1.00	2225		\dashv		хI	+	-+	ᅥ	+	+		1	-		+	+						_ <u> </u>			
GW-6MW-4D	1.00	2233		十		<u>x </u>	十	\dashv	\pm	\dashv	ᆉ	┿	- <u> </u> - - - - - - - - - - - - - - - - -			+	-	+	+	4	-	-	-+	-	4	+
ZZZZZZ	1.00	2242			-	극	+	┪	+	+	\dashv	+	+	+		+		4	+					+	+	
ZZZZZZ	1.00	2250	ل ــــــــــــــــــــــــــــــــــــ	十		十	\dashv	-+	+	十	+	+	+	+	+	+	+	+	-	_	-		 -	 -	-	
ZZZZZZ	1.00	2258		+	-	ᆉ	+	+	+	-+	+	ᅷ	+	+	十	+	+	+	+					-	+	
ccv	1.00	2307		\dashv		x	+	+	\dashv	+	╁	\pm	1,	+	+	+	+	+	+	-			-		+	+
CCB	1.00	2315	 	+	-	x	+	\dashv	ᆉ	+	+	+	1,		+	+	+		+	4	-}	-	-+	4	4	4_

URS

To:

Anthony Pace

Associate - Malcolm Pirnie, Inc.

From:

Peter R. Fairbanks

Senior Chemist - URS

Mary E. Bitka

Project Manager - URS

Date:

September 21, 2004

Subject:

Organic Data Validation Report for 80th Division Reserve Site, Fort Story,

Virginia

June 14-18, 2004 Groundwater Sampling Event

Sample Delivery Group No. 3340

Data Validation Narrative

Twelve groundwater samples, two field duplicates, and one matrix spike/matrix spike duplicate (MS/MSD) pair were collected from June 14-18, 2004 at the 80th Division Reserve Site located in Fort Story, Virginia. The samples were analyzed by CompuChem Laboratories of Cary, North Carolina. The data were validated to United States Environmental Protection Agency (USEPA) Region III Level M-2.

The data package was reviewed following USEPA guidelines presented in Region III Modifications to National Functional Guidelines for Organic Data Review, September 1994 and Region III Innovative Approaches to Data Validation, June 1995.

The text of this report only addresses those problems that affect data usability. The following appendices are included with this Data Validation Report:

Appendices

Appendix A – Sample and Analysis Summary

Appendix B - Glossary of Data Qualifiers

Appendix C – Laboratory Results (Form Is)

Appendix D - Support Documentation

Overview

Twelve groundwater samples, two field duplicates, and one MS/MSD pair were collected from June 14-18, 2004 at the 80th Division Reserve Site located in Fort Story, Virginia. The samples were analyzed by CompuChem Laboratories of Cary, North Carolina. The samples were analyzed for the following parameters:

<u>Parameter</u>

Method No.

Target Compound List (TCL) Volatile Organic Compounds (VOCs)

SW8260B

A sample and analysis summary is presented in Appendix A. The analytical results were reported in laboratory Sample Delivery Group (SDG) No. 3340. The data package was consistent with USEPA Contract Laboratory Program (CLP) requirements, except where noted in subsequent sections of this report.

The data were validated to USEPA Region III Level M-2. A glossary of data qualifiers is presented in Appendix B. The USEPA Region III hierarchy of qualifiers is as follows: "R", "B", "L", "K", and "J".

All detected sample concentrations were below the 10-day "Chemical Health Advisory Level" listed in the USEPA Region III *Innovative Approaches to Data Validation*, June 1995.

Summary

The samples were successfully analyzed, with exceptions noted in subsequent sections of this report. Data that were determined to be unusable are discussed in the "Major Problems" and "Notes" section of this report. Copies of the validated laboratory results (Form 1s) are presented in Appendix C. Support documentation is presented in Appendix D.

Major Problems

Major problems are those considered to have a serious effect on the usability of the data, which result in the rejection ("R") of data due to severe quality control (QC) exceedances from the referenced method. The following data have been rejected ("R").

• The VOC continuing calibration (CCAL) performed on 06/23/04 exhibited a low relative response factor (RRF) (i.e., <0.050) for acetone. The acetone results (all non-detect) for all groundwater samples (except MW-03 and MW-07, which are not associated with this CCAL) were qualified "R" (rejected). Supporting documentation (i.e., laboratory Forms 5 and 7B) is presented in Appendix D.

Minor Problems

Minor problems are those that reflect biases identified during the data review, which may result in the qualification of sample results as biased low ("L/UL"), biased high ("K"), or estimated ("J/UJ").

• The VOC CCAL performed on 06/23/04 exhibited an elevated percent difference (%D) (i.e., >50%) for bromomethane. The bromomethane results (all non-detect) for all groundwater samples (except MW-03 and MW-07, which are not associated with this

CCAL) were qualified as estimated ("UJ"). Supporting documentation (i.e., laboratory Forms 5 and 7B) is presented in Appendix D.

Notes

Sample Custody Documentation

All samples were received at the laboratory intact and under proper chain-of-custody (COC) documentation, except for the following instances.

- Groundwater sample MW-12 was collected on 06/14/04 and 06/15/04. In order to
 differentiate between the two samples, the laboratory added the suffix "06/15/04" to the
 second sample ID.
- On the COC associated with samples collected on 06/16/04, the laboratory noted that two 40-ml VOA vials (trip blank) were received, but were not documented accordingly. The laboratory did not report any trip blank results with this SDG.

Blank Review

Two target compounds were detected in the method blanks as summarized in Table 1, which lists the maximum concentrations detected. Also, one tentatively identified compound (TIC) was detected in the VOC method blanks. Supporting documentation (i.e., laboratory Form 1 and 4) is presented in Appendix D.

USEPA Region III validation guidelines require associated sample concentrations less than five times for all target compounds/analytes and 10 times for TICs to be qualified "B". In addition, TICs qualified "B" are also crossed out on Form 1 VOC-TIC. The samples associated with the contaminated method blank did not contain any affected target compounds or TICs. No qualification of the data was necessary.

Field Duplicate Precision

Diald Doublests ID

The following field duplicates were collected during this sampling event:

Parent Sample ID
MW-01
MW-06

A summary of field precision is presented in Table 2 for sample MW-06 only, because there were no target compounds detected in sample MW-01 and MW-01-DUP. No qualification of data was made based on field duplicate precision, as per the USEPA Region III validation guidelines.

Matrix Spike/Matrix Spike Duplicate

MS/MSD analyses were performed on sample MW-10. The MS/MSD analyses and associated laboratory control samples (LCSs) generally exhibited good precision and accuracy. No qualification of data was made based on field MS/MSD accuracy and precision, as per the USEPA Region III validation guidelines.

Reporting Variances

The following analytical result reporting variance, requiring no data validation qualification, was noted during the data review:

 The validated dates of sample receipt at the laboratory were incorrectly documented in the case narrative. The case narrative was manually revised during the data review to reflect the correct dates of sample receipt.

TABLE 1
MAXIMUM CONCENTRATION OF ANALYTES IN QC BLANKS
FORT STORY - 80th DIVISION RESERVE SITE
SDG No. 3340

Compound	Method Blanks (ug/L)	
Bromomethane	1.2	
1,2,4-Trichlorobenzene	2.3	
1,4-Dichloro-1-butene (TIC)	5.4	

--- - Non-Detect

TIC - Tentatively Identified Compound

TABLE 2 FIELD DUPLICATE PRECISION FORT STORY - 80th DIVISION RESERVE SITE SDG No. 3340

PRIMARY SAMPLE ID	FIELD DUPLICATE SAMPLE ID	ANALYTE	UNITS	PRIMARY ANALYTE CONCENTRATION	DUPLICATE ANALYTE CONCENTRATION	RPD (%)
MW-06		cis-1,2-Dichloroethene	ug/L	1.8	1.9	5.4
		Trichloroethene	ug/L	1.7	1.5	12.5
		Tetrachloroethene	ug/L	ND	1.2	NC NC

ND - Non-Detect NC - Not Calculable

Only analytes detected in sample and/or duplicate are shown.

APPENDIX A SAMPLE AND ANALYSIS SUMMARY

APPENDIX A SAMPLE AND ANALYSIS SUMMARY FORT STORY - 80th DIVISION RESERVE SITE

SDG No.	Sample ID	Matrix	Date of Collection	VOCs	Comments
3340	MW-12	Groundwater	06/14/04	X	
	MW-12-06/15/04	Groundwater	06/15/04	X	
	MW-11	Groundwater	06/15/04	X	~~~
	MW-10	Groundwater	06/15/04	X	MS/MSD
	MW-06	Groundwater	06/16/05	X	
	MW-06-DUP	Groundwater	06/16/05	X	Field Duplicate
	MW-05	Groundwater	06/16/05	X	: icid Duplicate
	MW-09	Groundwater	06/17/04	X	
	MW-08	Groundwater	06/17/04	X	
	MW-01	Groundwater	06/17/04	X	
	MW-01-DUP	Groundwater	06/17/04	X	Field Duplicate
	MW-02	Groundwater	06/17/04	$\frac{\hat{x}}{x}$	1 icio Duplicate
	MW-03	Groundwater	06/17/04	$\frac{1}{X}$	
	MW-07	Groundwater	06/18/04	X	

Notes:

X - Parameter requested.

--- - No comment.

MS/MSD - Matrix Spike/Matrix Spike Duplicate

APPENDIX B GLOSSARY OF DATA QUALIFIERS

GLOSSARY OF DATA QUALIFIERS

For the purposes of Region III Data Validation, the following code letters and associated definitions are provided:

U	-	Not detected. The associated number indicates approximate sample concentration necessary to be detected.
В	-	Not detected substantially above the level reported in the laboratory or field blanks.
R	-	Unreliable result. Analyte may or may not be present in the sample. Supporting data necessary to confirm result.
J	-	Analyte present. Reported value may not be accurate or precise.
K	-	Analyte present. Reported value may be biased high. Actual value is expected lower.
L	· -	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N	-	Tentative identification. Consider present. Special methods may be needed to confirm its presence or absence in future sampling efforts.
UJ	-	Not detected. Quantitation limit may be inaccurate or imprecise.

- NJ Qualitative identification questionable due to poor resolution. Presumptively present at an approximate quantity.
- **D** The reported value is from a secondary dilution.

APPENDIX C LABORATORY RESULTS (Form Is)

CLIENT SAMPLE NO.

MW-01

Lab Name: COMPUCHEM Method: 8260B Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 3340 Matrix: (soil/water) WATER Lab Sample ID: 334010 Sample wt/vol: (g/ml) ML Lab File ID: 334010B61 Level: (low/med) LOW Date Received: 06/18/04 % Moisture: not dec. Date Analyzed: 06/24/04 GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0 Soil Extract Volume: (uL) Soil Aliquot Volume: ____(uL CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q 75-71-8-----Dichlorodifluoromethane 74-87-3-----Chloromethane 5.0 U 75-01-4-----Vinyl Chloride 5.0 U 74-83-9-----Bromomethane 5.0 U 75-00-3-----Chloroethane 5.0 UJ 5.0 U 75-69-4-----Trichlorofluoromethane 75-35-4-----1,1-Dichloroethene 5.0 U 5.0 U 5.0 U 75-15-0-----Carbon disulfide 76-13-1----1,1,2-trichloro-1,2,2-triflu 67-64-1-----Acetone 75-09-2-----Methylene Chloride 13 U 156-60-5----trans-1,2-Dichloroethene 5.0 U 1634-04-4-----Methyl-tert-butyl ether 5.0 U 75-34-3-----1,1-Dichloroethane 5.0 U 156-59-2----cis-1,2-Dichloroethene 5.0 U 78-93-3----2-butanone 5.0 67-66-3-----Chloroform 13 U 71-55-6------1,1,1-Trichloroethane 56-23-5------Carbon Tetrachloride 5.0 5.0 U 71-43-2----Benzene 5.0 107-06-2----1, 2-Dichloroethane 5.0 U 79-01-6-----Trichloroethene 5.0 U 78-87-5-----1,2-Dichloropropane 5.0 U 75-27-4-----Bromodichloromethane 5.0 U 10061-01-5----cis-1,3-Dichloropropene 5.0 U 5.0 U 108-10-1-----4-Methyl-2-pentanone 108-88-3-----Toluene 13 U 10061-02-6----trans-1,3-Dichloropropene 5.0 U 79-00-5-----1,1,2-Trichloroethane 5.0 U 127-18-4-----Tetrachloroethene 5.0 U 591-78-6----2-hexanone 5.0 U 124-48-1-----Dibromochloromethane 13 U 106-93-4----1,2-Dibromoethane 5.0 U 5.0 U FORM I VOA

CLIENT SAMPLE NO.

a) }	Lab Name: COMPUCHEM		Method: 8260B	MW-01	
Son particular of	Lab Code: LIBRTY	Case No.:	SAS No.: SDG	No.: 3340	-'
3	Matrix: (soil/water)	WATER	Lab Sample ID	: 334010	
ş Ş	Sample wt/vol:	5 (g/ml) ML	Lab File ID:	334010B61	
}	Level: (low/med)	LOW	Date Received	: 06/18/04	
Const.	% Moisture: not dec.		Date Analyzed	: 06/24/04	
	GC Column: RTX-VMS	ID: 0.18 (mm)	Dilution Facto	or: 1.0	
	Soil Extract Volume:	(uL)	Soil Aliquot N	Volume:	(uL
	CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/I		•
	100-41-4 100-42-5 75-25-2 98-82-8 79-34-5 541-73-1 106-46-7 95-50-1 96-12-8 120-82-1 1330-20-7 110-82-7	BromoformIsopropyl Benze1,1,2,2-Tetrach1,3-Dichloroben1,4-Dichloroben1,2-Dichloroben1,2-Dibromo-3-C1,2,4-Trichloro	ene lloroethane lzene zene zene chloropropane benzene	5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	

FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

(g/ml) ML

CLIENT SAMPLE NO.

MW-01	
No.: 3340	
: 334010	
334010B61	
	No.: 3340 334010

Level: (low/med) LOW

Matrix: (soil/water) WATER

Date Received: 06/18/04 Date Analyzed: 06/24/04

% Moisture: not dec. GC Column: RTX-VMS

Lab Name: COMPUCHEM

Lab Code: LIBRTY

Sample wt/vol:

ID: 0.18 (mm)

Case No.:

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

Contract: 8260B

SAS No.:

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q =====
2. 3. 4.				
5. 6. 7.				
8. 9. 10.				
11. 12. 13. 14.				
15. 16. 17.				
18. 19. 20.				
21. 22. 23. 24.				
25. 26. 27.				
28. 29. 30.				

FORM I VOA-TIC

CLIENT SAMPLE NO.

MW-01 DUP Lab Name: COMPUCHEM Method: 8260B Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 3340 Matrix: (soil/water) WATER Lab Sample ID: 334011 Sample wt/vol: 5 (g/ml) ML Lab File ID: 334011B61 Level: (low/med) LOW Date Received: 06/18/04 % Moisture: not dec. ____ Date Analyzed: 06/24/04 GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0 Soil Extract Volume: (uL) Soil Aliquot Volume: ____(uL CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 75-71-8-----Dichlorodifluoromethane 5.0 U 74-87-3-----Chloromethane 5.0 U 75-01-4-----Vinyl Chloride 5.0 U 5.0 U 5.0 U 74-83-9-----Bromomethane 75-00-3-----Chloroethane 75-69-4----Trichlorofluoromethane 5.0 U 75-35-4----1,1-Dichloroethene 5.0 U 75-15-0-----Carbon disulfide 5.0 0 76-13-1----1,1,2-trichloro-1,2,2-triflu 5.0 U 67-64-1-----Acetone 13 UR 75-09-2-----Methylene Chloride 5.0 U 156-60-5----trans-1,2-Dichloroethene 5.0 U 1634-04-4-----Methyl-tert-butyl ether 5.0 U 75-34-3-----1,1-Dichloroethane 5.0 U 5.0 U 156-59-2----cis-1,2-Dichloroethene 78-93-3----2-butanone 13 67-66-3-----Chloroform 5.0 U 5.0 U 5.0 U 5.0 U 71-55-6-----1,1,1-Trichloroethane 56-23-5-----Carbon Tetrachloride 71-43-2----Benzene 107-06-2----1,2-Dichloroethane 79-01-6-----Trichloroethene 5.0 U 5.0 U 78-87-5----1,2-Dichloropropane 75-27-4----Bromodichloromethane 5.0 U 5.0 U 10061-01-5----cis-1,3-Dichloropropene 108-10-1----4-Methyl-2-pentanone 108-88-3-----Toluene 10061-02-6----trans-1,3-Dichloropropene 79-00-5-----1,1,2-Trichloroethane 13 U 5.0 U 5.0 U 5.0 U 127-18-4-----Tetrachloroethene 5.0 U 591-78-6----2-hexanone 124-48-1----Dibromochloromethane 13 | U 5.0 U 106-93-4-----1,2-Dibromoethane 5.0 U

FORM I VOA

CLIENT SAMPLE NO.

CAS NO. COMPOUND CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Q 108-90-7					1
Matrix: (soil/water) WATER Sample wt/vol: 5 (g/ml) ML Lab File ID: 334011 Level: (low/med) LOW Date Received: 06/18/04 Moisture: not dec. GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0 Soil Extract Volume: (uL) CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L 108-90-7Chlorobenzene 5.0 U 100-41-4Ethylbenzene 5.0 U 100-42-5Styrene 5.0 U 75-25-2Bromoform 5.0 U 98-82-8Isopropyl Benzene 5.0 U 79-34-51,1,2,2-Tetrachloroethane 5.0 U 106-46-71,4-Dichlorobenzene 5.0 U 106-46-71,2-Dichlorobenzene 5.0 U 106-82-11,2-Dichlorobenzene 5.0 U 120-82-11,2-Dichlorobenzene 5.0 U 1330-20-7	}	Lab Name: COMPUCHEM	Method: 8260B	MW-01 DUP	
Sample wt/vol: 5 (g/ml) ML	, Contract	Lab Code: LIBRTY Case No.:	SAS No.: SDG	No.: 3340	
Level: (low/med) LOW Date Received: 06/18/04 Rosture: not dec. Date Analyzed: 06/24/04 GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0 Soil Extract Volume: (uL) Soil Aliquot Volume: CAS NO. COMPOUND CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Q 108-90-7Chlorobenzene 5.0 U 100-41-4Ethylbenzene 5.0 U 75-25-2Bromoform 5.0 U 98-82-8Isopropyl Benzene 5.0 U 98-82-8I,1,2,2-Tetrachloroethane 5.0 U 541-73-11,3-Dichlorobenzene 5.0 U 106-46-71,4-Dichlorobenzene 5.0 U 95-50-11,2-Dichlorobenzene 5.0 U 96-12-81,2-Dibromo-3-Chloropropane 5.0 U 120-82-1		Matrix: (soil/water) WATER	Lab Sample ID:	334011	
# Moisture: not dec	3	Sample wt/vol: 5 (g/ml) ML	Lab File ID:	334011B61	
GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0 Soil Extract Volume:(uL) Soil Aliquot Volume: CAS NO. COMPOUND CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Q 108-90-7Chlorobenzene 5.0 U 100-41-4Ethylbenzene 5.0 U 100-42-5Styrene 5.0 U 75-25-2Bromoform 5.0 U 98-82-8Isopropyl Benzene 5.0 U 79-34-51,1,2,2-Tetrachloroethane 5.0 U 541-73-11,3-Dichlorobenzene 5.0 U 106-46-71,4-Dichlorobenzene 5.0 U 95-50-11,2-Dichlorobenzene 5.0 U 96-12-81,2-Dibromo-3-Chloropropane 5.0 U 120-82-11,2,4-Trichlorobenzene 5.0 U 1330-20-7Xylene (total) 5.0 U 79-20-9Methyl acetate		Level: (low/med) LOW	Date Received:	06/18/04	
GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0 Soil Extract Volume:(uL) Soil Aliquot Volume:	. 8	% Moisture: not dec.	Date Analyzed:	06/24/04	
CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q 108-90-7Chlorobenzene 5.0 U 100-41-4Ethylbenzene 5.0 U 100-42-5Styrene 5.0 U 75-25-2Bromoform 5.0 U 98-82-8Isopropyl Benzene 5.0 U 79-34-51,1,2,2-Tetrachloroethane 5.0 U 541-73-11,3-Dichlorobenzene 5.0 U 106-46-71,4-Dichlorobenzene 5.0 U 95-50-11,2-Dichlorobenzene 5.0 U 96-12-81,2-Dibromo-3-Chloropropane 5.0 U 120-82-11,2,4-Trichlorobenzene 5.0 U 1330-20-7	States	GC Column: RTX-VMS ID: 0.18 (mm)			
108-90-7Chlorobenzene 5.0 U 100-41-4Ethylbenzene 5.0 U 100-42-5Styrene 5.0 U 75-25-2Bromoform 5.0 U 79-34-51,1,2,2-Tetrachloroethane 5.0 U 106-46-71,4-Dichlorobenzene 5.0 U 106-46-71,2-Dichlorobenzene 5.0 U 106-46-71,2-Dichlorobenzene 5.0 U 106-82-11,2,4-Trichlorobenzene 5.0 U 106-82-11,2,4-Trichlorobenzene 5.0 U 106-82-11,2,4-Trichlorobenzene 5.0 U 106-82-11,2,4-Trichlorobenzene 5.0 U 106-82-11,2,4-Trichlorobenzene 5.0 U 106-82-11,2,4-Trichlorobenzene 5.0 U 106-82-11,2,4-Trichlorobenzene 5.0 U 106-82-11,2,4-Trichlorobenzene 5.0 U 106-82-1		Soil Extract Volume:(uL)	Soil Aliquot V	olume:	(uL
100-41-4Ethylbenzene	100 mm	CAS NO. COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q	
110-82-7Cyclohexane 5.0 U 108-87-2Methylcyclohexane 5.0 U		100-41-4Ethylbenzene 100-42-5Styrene 75-25-2Bromoform 98-82-8Isopropyl Benz 79-34-51,1,2,2-Tetrac 541-73-11,3-Dichlorobe 106-46-71,4-Dichlorobe 95-50-11,2-Dichlorobe 96-12-81,2-Dibromo-3 120-82-1Xylene (total) 79-20-9	ene hloroethane nzene nzene nzene Chloropropane obenzene	5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	

FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Number TICs found: 0

29. 30._ CLIENT SAMPLE NO.

	Lab Name: COMPUCHEM	Contract: 8260B MW-01 DUP
Consequence	Lab Code: LIBRTY Case No.:	SAS No.: SDG No.: 3340
	Matrix: (soil/water) WATER	Lab Sample ID: 334011
}	Sample wt/vol: 5 (g/ml) M	L Lab File ID: 334011B61
	Level: (low/med) LOW	Date Received: 06/18/04
	% Moisture: not dec.	Date Analyzed: 06/24/04
	GC Column: RTX-VMS ID: 0.18 (mm)	Dilution Factor: 1.0
	Soil Extract Volume:(uL)	Soil Aliquot Volume: (u
3	Number TICs found, o	CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/L CAS NUMBER COMPOUND NAME RTEST. CONC. Q ----------------1. 3. 4._ 6. 7._ 8. 9. 10. 11. 12. 13. 14. 15. 16. 17._ 18._ 19. 20. 21. 22. 23. 24. 25. 26. 27. 28.

FORM I VOA-TIC

CLIENT SAMPLE NO.

MW-02 Lab Name: COMPUCHEM Method: 8260B Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 3340 Matrix: (soil/water) WATER Lab Sample ID: 334012 Sample wt/vol: (g/ml) ML Lab File ID: 334012B61 Level: (low/med) LOW Date Received: 06/18/04 % Moisture: not dec. Date Analyzed: 06/24/04 GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0 Soil Extract Volume: (uL) Soil Aliquot Volume: ____(uL CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 75-71-8-----Dichlorodifluoromethane 5.0 U 74-87-3-----Chloromethane 5.0 U 75-01-4-----Vinyl Chloride 5.0 U 74-83-9-----Bromomethane 5.0 U J 5.0 U 75-00-3-----Chloroethane 75-69-4-----Trichlorofluoromethane 5.0 U 5.0 U 75-35-4-----1,1-Dichloroethene 75-15-0-----Carbon disulfide 5.0 U 76-13-1----1,1,2-trichloro-1,2,2-triflu 5.0 U 67-64-1-----Acetone 13 UR 75-09-2-----Methylene Chloride 5.0 U 156-60-5-----trans-1,2-Dichloroethene 5.0 U 1634-04-4-----Methyl-tert-butyl ether 5.0 U 75-34-3------1,1-Dichloroethane 5.0 U 156-59-2----cis-1,2-Dichloroethene 5.0 78-93-3-----2-butanone 13 U 5.0 U 67-66-3-----Chloroform 71-55-6-----1,1,1-Trichloroethane 5.0 U 56-23-5-----Carbon Tetrachloride 71-43-2-----Benzene 5.0 5.0 107-06-2----1,2-Dichloroethane 5.0 79-01-6-----Trichloroethene 5.0 U 78-87-5-----1, 2-Dichloropropane 75-27-4-----Bromodichloromethane 5.0 5.0 U 5.0 U U 10061-01-5----cis-1,3-Dichloropropene 108-10-1-----4-Methyl-2-pentanone 108-88-3-----Toluene 10061-02-6-----trans-1,3-Dichloropropene 79-00-5-----1,1,2-Trichloroethane 13 U 5.0 U 5.0 U 5.0 127-18-4-----Tetrachloroethene U 5.0 U 591-78-6----2-hexanone 124-48-1-----Dibromochloromethane 13 U 5.0 U 106-93-4----1,2-Dibromoethane 5.0 U

FORM I VOA

dislot

CLIENT SAMPLE NO.

-1					
şe-ve-	Lab Name: COMPUCHEM		Method: 8260B	MW-02	
Constitution of the Consti	Lab Code: LIBRTY	Case No.:	SAS No.: SDG	No.: 3340	, 1
	Matrix: (soil/water)	WATER	Lab Sample ID	: 334012	
Parkers.	Sample wt/vol:	5 (g/ml) ML	Lab File ID:	334012B61	
horacona e é	Level: (low/med)		Date Received:		
-	% Moisture: not dec.	-	Date Analyzed:		
Part of the Part o	GC Column: RTX-VMS	ID: 0.18 (mm)	Dilution Facto		
)	Soil Extract Volume:		Soil Aliquot V		(uL
(Transfer of the Control of the Cont	CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/I		
OCCUPATION SOCIETY STATES OF THE STATES OF T	100-42-5 75-25-2 98-82-8 79-34-5 541-73-1 106-46-7 95-50-1 96-12-8 120-82-1 1330-20-7 79-20-9	ChlorobenzeneEthylbenzeneStyreneBromoformIsopropyl Benze1,1,2,2-Tetrach1,3-Dichloroben1,4-Dichloroben1,2-Dichloroben1,2-Dichloroben1,2-4-Trichloroh	ne loroethane zene zene zene nloropropane penzene	5.0 U U U U U U U U U U U U U U U U U U U	

FORM I VOA

FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

				1	
	Lab Name: COMPUCHEM		Contract: 8260B	MW-02	
, i	Lab Code: LIBRTY	Case No.:	SAS No.: SDG	No.: 3340	
역 역	Matrix: (soil/water)	WATER	Lab Sample ID		
j	Sample wt/vol:	5 (g/ml) ML	Lab File ID:		
y.	Level: (low/med)	LOW	Date Received:		
A Charles	% Moisture: not dec.	***	Date Analyzed:		
	GC Column: RTX-VMS	ID: 0.18 (mm)	Dilution Facto		
	Soil Extract Volume:	(uL)	Soil Aliquot V		11 T

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
2:				
4.				
6. 7. 8.				
9.				
11.				
13.				
6.7.				
9.				
0				
4.				
5				
8.				
0				

FORM I VOA-TIC

CLIENT SAMPLE NO.

MW-03 Lab Name: COMPUCHEM Method: 8260B Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 3340 Matrix: (soil/water) WATER Lab Sample ID: 334013 Sample wt/vol: 5 (g/ml) ML Lab File ID: 334013RB61 Level: (low/med) LOW Date Received: 06/18/04 % Moisture: not dec. Date Analyzed: 06/24/04 GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0 Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

	1	
75-71-8Dichlorodifluoromethane	5.0	II
1 /4-8/-3Chloromethane	5.0	
75-01-4Vinyl Chloride	5.0	1 -
1 /4-83-9Bromomethane	5.0	
75-00-3Chloroethane	5.0	
75-69-4Trichlorofluoromethane	5.0	
75-35-41.1-Dichloroethene	5.0	
/5-15-0Carbon disulfide		
76-13-11.1.2-trichloro-7.2.2-triflip	5.0	
b/-b4-1Acetone	5.0	
75-09-2Methylene Chloride	13	1 - 1
156-60-5trans-1 2-Dichlorosthone	5.0	
1034-04-4Methv -tert-hutv ether	5.0	
/3-34-3	5.0	Ιŭ
156-59-2Cis-1 2-Dichloroethere	5.0	
/0-93-3	5.0	
67-66-3Chloroform	_ 13	1 - 1
71-55-61 1 1-Trichloroothana	5.0	
55-23-5Carbon Tetrachloride	5.0	
/1-43-2	5.0	
107-06-21 2-Dichloroethare	5.0	
/9-01-6Tricklorgethons	5.0	
/8-87-51 2-Dichloropropage	5.0	
/3-4/-4	5.0	- 1
10061-01-5Cig-1 3-Dichloron-on	5.0	ט
100-10-1	5.0	
(UN-DN-1	_13	
10061-02-6trans-1 3-Dichlerens-1-1	5.0	
-/2 UU-J	5.0	- 1
14/-10-4Tetrachloroethono		U
591 - /8-h	· •	U
124-48-1Dibromochloromethane	_13	- 1
106-93-41, 2-Dibromoethane		ט
- 15 protomoechane	5.0	U
FORM I VOA		
AOA I MOA	 ,	

CLIENT SAMPLE NO.

garage.	Lab Name: COMPUCHEM				MW-03	
			Method: 8260			
	Lab Code: LIBRTY		SAS No.:	SDG	No.: 3340	
Section of the sectio	Matrix: (soil/water)			ample ID:		
i. j	Sample wt/vol:	5 (g/ml) ML	Lab F	ile ID:	334013RB61	
	Level: (low/med)	LOW	Date	Received:	06/18/04	
}	% Moisture: not dec.				06/24/04	
September 1	GC Column: RTX-VMS	ID: 0.18 (mm)		ion Facto		
	Soil Extract Volume:	(uL)	Soil .	Aliquot V	olume:	(uL
	CAS NO.	COMPOUND	CONCENTRATION (ug/L or ug	ON UNITS:		
A. Contraction	100-41-4	Chlorobenzene Ethylbenzene Styrene			5.0 U 5.0 U 5.0 U	
Monthson of the first of the fi	541-73-1 106-46-7 95-50-1 96-12-8 120-82-1 1330-20-7 79-20-9	BromoformIsopropyl Benze1,1,2,2-Tetrac1,3-Dichlorober1,2-Dichlorober1,2-Dibromo-3-(1,2,4-TrichloroXylene (total)Methyl acetateMethylcyclohexa	hloroethanenzene		5.0000 5.00000 5.000000 5.000000 5.00000000	
					5.0 U	

FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

* - *	Lab Name: COMPUCHEM	Contract: 8260B	MW-03	
i in	Lab Code: LIBRTY Case No.:	SAS No.: SDG	No.: 3340	1
No. of the last of	Matrix: (soil/water) WATER	Lab Sample ID:		
	Sample wt/vol: 5 (g/ml) ML	Lab File ID:	-	
a reasonated	Level: (low/med) LOW	Date Received:		
	% Moisture: not dec.	Date Analyzed:		
	GC Column: RTX-VMS ID: 0.18 (mm)	Dilution Facto	•	
)	Soil Extract Volume:(uL)	Soil Aliquot V	- 3	uL
	Number TICs found: 0	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	·	

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q =====
2. 3. 4.				
6. 7.				
9. 10. 11.				
12. 13. 14.				
15. 16. 17.				
19. 20. 21.				
23.				
25. 26. 27.				
29. 30.				

FORM I VOA-TIC

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM MW-05 Method: 8260B Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 3340 Matrix: (soil/water) WATER Lab Sample ID: 334007 Sample wt/vol: 5 (g/ml) ML Lab File ID: 334007B61 Level: (low/med) LOW Date Received: 06/17/04 % Moisture: not dec. Date Analyzed: 06/24/04 GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0 Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 0 75-71-8-----Dichlorodifluoromethane 74-87-3-----Chloromethane 5.0 U 5.0 UU J 5.0 UU U 75-01-4-----Vinyl Chloride 74-83-9-----Bromomethane 75-00-3-----Chloroethane 75-69-4-----Trichlorofluoromethane 75-35-4-----1,1-Dichloroethene 5.0 U 75-15-0-----Carbon disulfide 76-13-1-----1,1,2-trichloro-1,2,2-triflu 5.0 U 67-64-1-----Acetone 5.0 U UR 75-09-2-----Methylene Chloride 13 5.0|U 156-60-5----trans-1,2-Dichloroethene 1634-04-4-----Methyl-tert-butyl ether 5.0 U 75-34-3------1,1-Dichloroethane 5.0 U 156-59-2----cis-1,2-Dichloroethene 5.0 U 5.0 U 78-93-3----2-butanone 67-66-3-----Chloroform 13 U 71-55-6-----1,1,1-Trichloroethane 5.0 U 56-23-5-----Carbon Tetrachloride 71-43-2-----Benzene 107-06-2----1,2-Dichloroethane 79-01-6-----Trichloroethene 78-87-5-----1,2-Dichloropropane 5.0 U

FORM I VOA

75-27-4-----Bromodichloromethane

108-10-1-----4-Methyl-2-pentanone

127-18-4-----Tetrachloroethene

106-93-4-----1,2-Dibromoethane

124-48-1-----Dibromochloromethane

108-88-3-----Toluene

591-78-6----2-hexanone

10061-01-5----cis-1,3-Dichloropropene

10061-02-6----trans-1,3-Dichloropropene 79-00-5----1,1,2-Trichloroethane

dishi

5.0 U

5.0 U 5.0 U

13 U

U

5.0 U

5.0

2.1 J

13 U

5.0 U 5.0 U

CLIENT SAMPLE NO.

<u> </u>	Lab Name: COMPUCHEM	Method: 8260B	MW-05
	Lab Code: LIBRTY Case No.:		No.: 3340
Constitution and the	Matrix: (soil/water) WATER	Lab Sample ID:	334007
	Sample wt/vol: 5 (g/ml) ML		
	Level: (low/med) LOW	Date Received:	
	% Moisture: not dec.	Date Analyzed:	
Action of the Control	GC Column: RTX-VMS ID: 0.18 (mm)	Dilution Facto	r: 1.0
	Soil Extract Volume:(uL)	Soil Aliquot V	olume: (uL
	CAS NO. COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	
Statement providing	108-90-7	ene aloroethane azene zene zene hloropropane benzene	5.0 UU 5.0 VELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM		Contract: 8260B	MW-05
Lab Code: LIBRTY	Case No.:	SAS No.: SDG	No.: 3340
Matrix: (soil/water)	WATER	Lab Sample ID:	
Sample wt/vol:	5 (g/ml) ML	Lab File ID:	334007B61
Level: (low/med)	LOW	Date Received:	
% Moisture: not dec.		Date Analyzed:	06/24/04
GC Column: RTX-VMS	ID: 0.18 (mm)	Dilution Facto	r: 1.0
Soil Extract Volume:	(uL)	Soil Aliquot V	olume:(uL

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	
1. 275-51-4	AZULENE			==:
2	AZOTEKE	6.63	6.8	N.T
3.				1-10
		_		
4		-		
5.		-		1
6.		-		
7.		-		
8.		_		
9				
.ő: -				
1		+		l
2		~		
.3.		-		
4.		-		
5.				
6.				
7.		·		
8.		·		
9.				
0.		.		
1.				
2.				
2.				
3.				
4				
5.				
6.	· · · · · · · · · · · · · · · · · · ·			
7				
ś:				
·				
9				
0				
		;		

FORM I VOA-TIC

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM MW-06 Method: 8260B Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 3340 Matrix: (soil/water) WATER Lab Sample ID: 334005 Sample wt/vol: (g/ml) ML Lab File ID: 334005B61 Level: (low/med) LOW Date Received: 06/17/04 % Moisture: not dec. Date Analyzed: 06/24/04 GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0 Soil Extract Volume: (uL) Soil Aliquot Volume: ____(uL CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 75-71-8-----Dichlorodifluoromethane 74-87-3-----Chloromethane 5.0 U 75-01-4-----Vinyl Chloride 5.0 U 5.0 U 74-83-9-----Bromomethane 75-00-3-----Chloroethane 5.0 UJ 75-69-4-----Trichlorofluoromethane 5.0 ប្រ 75-35-4-----1,1-Dichloroethene 5.0 U 75-15-0-----Carbon disulfide 5.0 U 76-13-1-----1,1,2-trichloro-1,2,2-triflu 5.0 U 67-64-1------Acetone 5.0 U 75-09-2-----Methylene Chloride 13 UR 156-60-5-----trans-1,2-Dichloroethene 5.0 U 1634-04-4-----Methyl-tert-butyl ether 5.0 U 75-34-3-----1,1-Dichloroethane 5.0 U 156-59-2----cis-1,2-Dichloroethene 5.0 U 78-93-3----2-butanone 1.8 J 67-66-3-----Chloroform 13 U 71-55-6-----1,1,1-Trichloroethane 56-23-5-----Carbon Tetrachloride 5.0 U 5.0 U 71-43-2-----Benzene 5.0 U 107-06-2----1, 2-Dichloroethane 5.0 79-01-6-----Trichloroethene 5.0 78-87-5----1,2-Dichloropropane 1.7 J 75-27-4-----Bromodichloromethane 5.0 U 10061-01-5----cis-1,3-Dichloropropene 5.0 U 108-10-1-----4-Methyl-2-pentanone 5.0 U 108-88-3----Toluene 13 | U 10061-02-6----trans-1,3-Dichloropropene 5.0 U 79-00-5----1,1,2-Trichloroethane 5.0 U 127-18-4-----Tetrachloroethene 5.0 U 591-78-6----2-hexanone 5.0 U 124-48-1-----Dibromochloromethane 13 106-93-4-----1,2-Dibromoethane 5.0 ltt 5.0 FORM I VOA

CLIENT SAMPLE NO.

	Lab Name: COMPUCHEM	Method:	8260B	MW-06	
	Lab Code: LIBRTY Case No	SAS No.:	SDG	No.: 3340	
Manager Transport	Matrix: (soil/water) WATER	I	Lab Sample ID:	334005	
	Sample wt/vol: 5	(g/ml) ML	Lab File ID:	334005B61	
A manufacture of the state of t	Level: (low/med) LOW	r	Date Received:	06/17/04	
· · · · · · · · · · · · · · · · · · ·	% Moisture: not dec.		ate Analyzed:	06/24/04	
	GC Column: RTX-VMS ID: 0.	18 (mm) D	ilution Facto	r: 1.0	
هُهُ	Soil Extract Volume:	_(uL) s	oil Aliquot V	olume:	(uL
	CAS NO. COMP	CONCENT	RATION UNITS: r ug/Kg) UG/L		
	108-90-7	lbenzene ene		5.0 U 5.0 ED COMPOUNDS	

CLIENT SAMPLE NO.

179	Lab Name: COMPUCHEM	Contract: 8260B
	Lab Code: LIBRTY Case No.:	SAS No.: SDG No.: 3340
	Matrix: (soil/water) WATER	Lab Sample ID: 334005
	Sample wt/vol: 5 (g/ml) ML	
: -	Level: (low/med) LOW	Date Received: 06/17/04
	% Moisture: not dec.	Date Analyzed: 06/24/04
- Northwest and the second	GC Column: RTX-VMS ID: 0.18 (mm)	Dilution Factor: 1.0
, and a	Soil Extract Volume:(uL)	Soil Alíquot Volume:(ul
33		CONCLINED AME ON TRACE

Number TICs found: 1

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 275-51-4	AZULENE	6.64	*****	NJ
2			1	NU
4				1
5.		l		
6				
7.				
9:				
.0.				
.1.				
3				
4.				
5				
6.				
7. 8.				
9.				
0.				
1				
3.				
4.				
5.				
6				
8.				
9				
J •				

FORM I VOA-TIC

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM MW-06 DUP Method: 8260B Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 3340 Matrix: (soil/water) WATER Lab Sample ID: 334006 Sample wt/vol: (g/m1) ML Lab File ID: 334006B61 Level: (low/med) LOW Date Received: 06/17/04 % Moisture: not dec. Date Analyzed: 06/24/04 GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0 Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q 75-71-8-----Dichlorodifluoromethane 74-87-3-----Chloromethane 5.0 U 5.0 U 5.0 U 75-01-4-----Vinyl Chloride 74-83-9-----Bromomethane 5.0 UJ 75-00-3-----Chloroethane 5.0 U 5.0 U 75-69-4-----Trichlorofluoromethane 75-35-4-----1,1-Dichloroethene 75-15-0-----Carbon disulfide 5.0 U 5.0 U 5.0 U 76-13-1----1,1,2-trichloro-1,2,2-triflu 67-64-1-----Acetone 75-09-2-----Methylene Chloride 156-60-5-----trans-1,2-Dichloroethene 13 UR 5.0 U 1634-04-4-----Methyl-tert-butyl ether 5.0 U 75-34-3-----1,1-Dichloroethane 5.0 U 156-59-2----cis-1,2-Dichloroethene U 1.9 78-93-3----2-butanone J 67-66-3------Chloroform 13 U 71-55-6-----1,1,1-Trichloroethane 5.0 U 56-23-5-----Carbon Tetrachloride 5.0 U 5.0 U 71-43-2-----Benzene 107-06-2----1,2-Dichloroethane 5.0 U 5.0 U 79-01-6-----Trichloroethene 78-87-5-----1,2-Dichloropropane 1.5 5.0 บ 75-27-4-----Bromodichloromethane 10061-01-5----cis-1,3-Dichloropropene 5.0 U

FORM I VOA

108-10-1----4-Methyl-2-pentanone

127-18-4-----Tetrachloroethene

106-93-4-----1,2-Dibromoethane

124-48-1-----Dibromochloromethane

591-78-6----2-hexanone

5.0 U

13 | U 5.0 U 5.0 U

5.0 U 1,2

13

5.0 U

J

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM MW-06 DUP Method: 8260B Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 3340 Matrix: (soil/water) WATER Lab Sample ID: 334006 Sample wt/vol: (g/ml) ML Lab File ID: 334006B61 Level: (low/med) LOW Date Received: 06/17/04 % Moisture: not dec. Date Analyzed: 06/24/04 GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0 Soil Extract Volume:____(uL) Soil Aliquot Volume: ____(uL CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 108-90-7-----Chlorobenzene_100-41-4-----Ethylbenzene_ 5.0 U 100-42-5-----Styrene 5.0 U 5.0 U 75-25-2-----Bromoform 98-82-8-----Isopropyl Benzene 79-34-5-----1,1,2,2-Tetrachloroethane 541-73-1----1,3-Dichlorobenzene 106-46-7-----1,4-Dichlorobenzene
95-50-1-----1,2-Dichlorobenzene
96-12-8-----1,2-Dibromo-3-Chloropropane 5.0 U 5.0 U 5.0 U 108-87-2-----Methylcyclohexane 5.0 U 5.0 U

FORM I VOA

FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-06 DUP Contract: 8260B

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 3340

Matrix: (soil/water) WATER

Lab Sample ID: 334006

Sample wt/vol:

(g/ml) ML

Level: (low/med)

LOW

Lab File ID: 334006B61

% Moisture: not dec. ___

Lab Name: COMPUCHEM

Date Received: 06/17/04

GC Column: RTX-VMS

ID: 0.18 (mm)

Date Analyzed: 06/24/04

Soil Extract Volume:____(uL)

Number TICs found: 1

Dilution Factor: 1.0

Soil Aliquot Volume: ____(uL

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	TOW CO.	T
1. 91-20-3 2		6.64		Q ==== NJ
3. 4. 5.				
6. 7.				
8.				
10.				
4.				
.6				
8				
0				
2. 3. 4.				
5				
7 8 9 .				
0:				

FORM I VOA-TIC

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM MW-07 Method: 8260B Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 3340 Matrix: (soil/water) WATER Lab Sample ID: 334014 Sample wt/vol: (g/ml) ML Lab File ID: 334014B61 Level: (low/med) LOW Date Received: 06/91/04 % Moisture: not dec. Date Analyzed: 06/24/04 GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0 Soil Extract Volume: (uL) Soil Aliquot Volume: ____(uL CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 75-71-8-----Dichlorodifluoromethane 74-87-3-----Chloromethane 5.0 U 75-01-4-----Vinyl Chloride 5.0 U 74-83-9-----Bromomethane 5.0 U 75-00-3-----Chloroethane 5.0 U 75-69-4----Trichlorofluoromethane 5.0 U 75-35-4-----1,1-Dichloroethene 5.0 U 5.0 U 75-15-0-----Carbon disulfide 5.0 U 5.0 U 76-13-1----1,1,2-trichloro-1,2,2-triflu 67-64-1-----Acetone 75-09-2-----Methylene Chloride 13 U 156-60-5-----trans-1,2-Dichloroethene 1634-04-4-----Methyl-tert-butyl ether 5.0 U 5.0 U 75-34-3-----1,1-Dichloroethane 5.0 U 156-59-2----cis-1,2-Dichloroethene 5.0 U 78-93-3-----2-butanone 5.0 U 67-66-3-----Chloroform 13 U 71-55-6-----1,1,1-Trichloroethane 5.0 U 56-23-5-----Carbon Tetrachloride 5.0 U 71-43-2----Benzene 5.0 107-06-2----1,2-Dichloroethane 5.0 U 79-01-6-----Trichloroethene 5.0 U 78-87-5-----1,2-Dichloropropane 5.0 U 75-27-4-----Bromodichloromethane 5.0 U 10061-01-5----cis-1,3-Dichloropropene 5.0 U 108-10-1-----4-Methyl-2-pentanone 5.0 U 108-88-3-----Toluene 13 U 10061-02-6----trans-1,3-Dichloropropene 5.0 U 79-00-5-----1,1,2-Trichloroethane 5.0 U 127-18-4-----Tetrachloroethene 5.0 U 591-78-6----2-hexanone 5.0 U 124-48-1-----Dibromochloromethane 13 U 106-93-4-----1,2-Dibromoethane 5.0 U

FORM I VOA

5.0

CLIENT SAMPLE NO.

				ľ		
)y	Lab Name: COMPUCHEM		Method: 8260	ов	MW-07	
	Lab Code: LIBRTY	Case No.:	SAS No.:	SDG	No.: 3340	
	Matrix: (soil/water)	WATER	Lab S	Sample ID:	334014	
	Sample wt/vol:	5 (g/ml) ML	Lab F	File ID:	334014B61	1
Section 2	Level: (low/med)		Date	Received:	06/24/04	8/27/04
	<pre>% Moisture: not dec.</pre>		Date	Analyzed:	06/24/04	~
Service of the servic	GC Column: RTX-VMS		Dilut	ion Factor	r: 1.0	
∌	Soil Extract Volume:	(uL)	Soil	Aliquot Vo	olume:	(uL
	CAS NO.	COMPOUND	CONCENTRATION (ug/L or ug	ON UNITS: /Kg) UG/L	Q	-
	100-41-4 100-42-5 75-25-2 98-82-8	ChlorobenzeneEthylbenzeneStyreneBromoformIsopropyl Benze1,1,2,2-Tetrach1,3-Dichloroben1,4-Dichloroben1,2-Dichloroben1,2-Dibromo-3-C1,2,4-Trichloro	neloroethanezenezenehloropropanebenzene		5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00	

FORM I VOA

CLIENT SAMPLE NO.

Q =====

- Age	Lab Name: COMPUCHEM	Contract: 8260B	MW-07	
open.	Lab Code: LIBRTY Case No.:	030.33	No.: 3340	ļ
	Matrix: (soil/water) WATER	Lab Sample ID:		
1	Sample wt/vol: 5 (g/ml) ML	Lab File ID:		
Automorphism	Level: (low/med) LOW	Date Received:		sky
i i	% Moisture: not dec.	Date Analyzed:		
7	GC Column: RTX-VMS ID: 0.18 (mm)	Dilution Factor		
.j	Soil Extract Volume: (uL)	Soil Aliquot Vo	. 1.	uL
	Number TICs found: 0	CONCENTRATION UNITS:		

		(ug/L)	(ug/L or ug/Kg) ug/L		
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	
	2				
	3				
ĺ	<u> </u>				
	6.				
ļ	7.				
1	8				

	1 5.				
	J		-	• i ———	1
	6	- 	[- i
) 5.		• l ———————————————————————————————————	 	1
	7	- 			. J
	/ .		1	1	
			-	- 	· I
	8.		1	· · · · · · · · · · · · · · · · · · ·	
	0.		-	_ {	1
1	0	- I 			
	9.		ł	1	,
				·	1
	10.				
- 1	10.			. 1 — .	j .
- 1	11.	-	1		I
í	44.		. 1		_
ſ					1
- 1	12.		1		
- 1	± 4		I	. 	1
- 1	13.	-	1		<u> </u>
- 1	13.		f .	1	1
- 1		1			1
- 1	14.		1		
- 1				I	1
- 1	15.		!		
- 1	13,		1	1	
- 1		. 1			1
	16.		1		[
- 1				1.	1 1
ł	17.	· }	1		l l
- 1	11.		I		,
ı	4.0	·			, ,
- 1	18.			· · · · · · · · · · · · · · · · · · ·	
- 1					! !
	19.		1		
- 1			J	1	i 1
1	20				l I
- 1	20.		i .	1 .	
1					t
- 1	21.		Į.		
- 1				l	
	22.				·
ı	22,				
- 1		1			
- 1	23.				
- 1				l (- 1
ł	24.		_		
- 1	4T.			1	
- 1	25.	l 			1
ì	25.				
- 1					ı
•	26.		1		
1	20.			· · · · · · · · · · · · · · · · · · ·	}
1	27.	1			
- 1	41.		i	 -1	
1		[J
1	28.				
1					
- 1	29.				
1	4. J.		1		
ı	30.				
1	30.		J		
ì	·				ì

FORM I VOA-TIC

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM 80-WM Method: 8260B Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 3340 Matrix: (soil/water) WATER Lab Sample ID: 334009 Sample wt/vol: (g/ml) ML Lab File ID: 334009B61 Level: (low/med) I.OW Date Received: 06/18/04 % Moisture: not dec. Date Analyzed: 06/24/04 GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0 Soil Extract Volume:____(uL) Soil Aliquot Volume: ____(uL CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q 75-71-8-----Dichlorodifluoromethane___ 74-87-3-----Chloromethane 5.0 U 75-01-4-----Vinyl Chloride 5.0 U 74-83-9-----Bromomethane 5.0 U J 5.0 U 75-00-3-----Chloroethane 75-69-4-----Trichlorofluoromethane 75-35-4----1,1-Dichloroethene 5.0 U 5.0 U 75-15-0-----Carbon disulfide 76-13-1----1,1,2-trichloro-1,2,2-triflu 5.0 U 67-64-1-----Acetone 5.0 U 13 UP 75-09-2-----Methylene Chloride 156-60-5----trans-1,2-Dichloroethene 5.0 U 1634-04-4-----Methyl-tert-butyl ether_ 5.0 U 75-34-3-----1,1-Dichloroethane 5.0 U 156-59-2----cis-1,2-Dichloroethene 5.0 U 78-93-3----2-butanone 5.0 67-66-3-----Chloroform 13 U 71-55-6-----1,1,1-Trichloroethane 5.0 U 56-23-5-----Carbon Tetrachloride 5.0 U 5.0 U 71-43-2-----Benzene 107-06-2----1,2-Dichloroethane 5.0 U 79-01-6-----Trichloroethene 5.0 U 78-87-5-----1,2-Dichloropropane 5.0 U 75-27-4-----Bromodichloromethane 5.0 U 10061-01-5----cis-1,3-Dichloropropene 5.0 U 108-10-1-----4-Methyl-2-pentanone 5.0 U 108-88-3-----Toluene U 10061-02-6----trans-1,3-Dichloropropene 5.0 U 5.0 U 5.0 U 79-00-5-----1,1,2-Trichloroethane 127-18-4-----Tetrachloroethene 591-78-6----2-hexanone 124-48-1-----Dibromochloromethane 13 U 106-93-4-----1,2-Dibromoethane_ 5.0 U 5.0 U

FORM I VOA

1236 y

CLIENT SAMPLE NO.

200 m	Lab Name: COMPUCHEM		Method: 8260B	MW-08	
	Lab Code: LIBRTY	Case No.:	SAS No.:	SDG No.: 3340	—— I
Service of the servic	Matrix: (soil/water)			ID: 334009	
1,2	Sample wt/vol:			D: 334009B61	
, mg	Level: (low/med)		Date Recei	ved: 06/18/04	
	% Moisture: not dec.		Date Analy	zed: 06/24/04	
A Company of the Comp	GC Column: RTX-VMS	ID: 0.18 (mm)	Dilution F		
)	Soil Extract Volume:	(uL)	Soil Alique	ot Volume:	(uL
	CAS NO.	COMPOUND	CONCENTRATION UN (ug/L or ug/Kg) (TTS.	, ~~.5
	108-90-7 100-41-4 100-42-5 75-25-2	Chlorobenzene Ethylbenzene Styrene Bromoform		5.0 U 5.0 U 5.0 U	
	79-34-5 541-73-1 106-46-7	1,1,2,2-Tetrach	loroethane zene	5.0 U 5.0 U 5.0 U 5.0 U	
The manager of the second section.	96-12-8	1,2-Dichloroben1,2-Dichloroben1,2-Dibromo-3-C1,2,4-TrichloroXylene (total)Methyl acetateCyclohexaneMethylcyclohexan	zenehloropropanebenzene	5.0 U 5.0 U 5.0 U 5.0 U 5.0 U 5.0 U	

FORM I VOA

CLIENT SAMPLE NO.

· •	Lab Name: COMPUCHEM	Contract: 8260B	MW-08	
	Lab Code: LIBRTY Case No.:	SAS No.: SDG	No.: 3340	1
7	Matrix: (soil/water) WATER	Lab Sample ID:		
ģ	Sample wt/vol: 5 (g/ml) ML	Lab File ID:	334009B61	
*****	Level: (low/med) LOW	Date Received:	06/18/04	
3	% Moisture: not dec.	Date Analyzed:	06/24/04	
1	GC Column: RTX-VMS ID: 0.18 (mm)	Dilution Facto	•	
Ē	Soil Extract Volume:(uL)	Soil Aliquot V	olume;	(uI
	Number TICs found: 0	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L		_ `

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
2. 3. 4.				
5. 6. 7.				
8. 9. 10.				
12. 13. 14.				
15. 16. 17. 18.				
19. 20. 21.				
22. 23. 24.				
25. 26. 27. 28.				
29.				

FORM I VOA-TIC

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM MW-09 Method: 8260B Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 3340 Matrix: (soil/water) WATER Lab Sample ID: 334008 Sample wt/vol: 5 (g/ml) ML Lab File ID: 334008B61 Level: (low/med) LOW Date Received: 06/18/04 % Moisture: not dec. Date Analyzed: 06/24/04 GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0 Soil Extract Volume: (uL) Soil Aliquot Volume: ____(uL CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 75-71-8-----Dichlorodifluoromethane 74-87-3-----Chloromethane 5.0 U 75-01-4-----Vinyl Chloride 5.0 U 74-83-9----Bromomethane 5.0 U 75-00-3-----Chloroethane 5.0 UJ 75-69-4----Trichlorofluoromethane 5.0 U 75-35-4-----1,1-Dichloroethene 5.0 U 5.0 U 75-15-0-----Carbon disulfide 76-13-1----1,1,2-trichloro-1,2,2-triflu 5.0 U 67-64-1-----Acetone 5.0 U 75-09-2-----Methylene Chloride 13 U R 156-60-5----trans-1,2-Dichloroethene 5.0 U 1634-04-4-----Methyl-tert-butyl ether 5.0 U 5.0 U 75-34-3-----1,1-Dichloroethane 156-59-2----cis-1,2-Dichloroethene_ 5.0 U 78-93-3----2-butanone 11 67-66-3-----Chloroform 13 0 71-55-6-----1,1,1-Trichloroethane 5.0 U 56-23-5-----Carbon Tetrachloride 5.0 U 71-43-2-----Benzene 5.0 U 107-06-2----1,2-Dichloroethane 5.0 U 79-01-6----Trichloroethene 5.0 U 78-87-5-----1,2-Dichloropropane 7.5 75-27-4-----Bromodichloromethane 5.0 T 10061-01-5----cis-1,3-Dichloropropene 5.0|U 108-10-1-----4-Methyl-2-pentanone 5.0 Ŭ 13 U 5.0 Ū 5.0 U 5.0 U

FORM I VOA

127-18-4-----Tetrachloroethene

106-93-4-----1,2-Dibromoethane_

124-48-1-----Dibromochloromethane

591-78-6----2-hexanone

6.3

13 0

5.0 U 5.0 U

CLIENT SAMPLE NO.

				1		
And the second	Lab Name: COMPUCHEM		Method: 8260B		MW-09	
4	Lab Code: LIBRTY Communication of the Matrix: (soil/water) Note of the Matrix: (soil/water) Note of the Matrix: (low/med) I will be a matrix of the Moisture: not dec. I go Column: RTX-VMS I soil Extract Volume: CAS NO.	WATER 5 (g/ml) ML LOW	Lab File Date Rec Date Ana Dilution	ple ID: 334 peived: 06/2 plyzed: 06/2 practor: 1. quot Volume	008 008B61 18/04 24/04 .0	(uL
ST Control of the Con	541-73-1 106-46-7 95-50-1 96-12-8	-Ethylbenzene -Styrene -Bromoform -Isopropyl Benzer -1,1,2,2-Tetrachl -1,3-Dichlorobenz -1,4-Dichlorobenz -1,2-Dichlorobenz -1,2-Dibromo-3-Ch -1,2,4-Trichlorob Xylene (total) Methyl acetate	ne loroethane zene zene zene zene aloropropane penzene	5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	מממממממממממ	

CLIENT SAMPLE NO.

NJ

. }	Lab Name: COMPUCHEM	Contract: 8260B	MW-09
: \$	Lab Code: LIBRTY Case No.:	(10 ···	No.: 3340
A. Commence of	Matrix: (soil/water) WATER	Lab Sample ID:	
: .3	Sample wt/vol: 5 (g/ml) N		
All reports of	Level: (low/med) LOW	Date Received:	
1.3	% Moisture: not dec.	Date Analyzed:	
	GC Column: RTX-VMS ID: 0.18 (mm)		
13	Soil Extract Volume: (uL)	Soil Aliquot V	
	Number TICs found: 1	CONCENTRATION UNITS:	

		(ug/L a	or ug/Kg)	ug/L
	CAS NUMBER 1. 275-51-4 2.	COMPOUND NAME	RT ======= 6.64	EST. CONC.
	3. 4.			
	6. 7.			
l	8.			

		I			-
	6.		-		1
	7				-
	/ ·		-	-	.
	8.		-	. 1	
	0				·
	J				1
	10.				
	11				
	1 1 1 .		·		i I
	12		1		
			1		I
- 1	13.			·	1 1
- 1	14		1		
- 1	· · · · · · · · · · · · · · ·				
- 1	15.		·		l i
- 1	16.		į.		
ı	17.				l
- 1	- · · · · · - · · · · · · · · · · ·		[l i
- 1	18.		1		
- }	10				
- 1	19.				l i
- 1	20.		1		
- 1					
ı	21.			i	1
- 1	22.		ł		
- 1					
- 1	23	· · · · · · · · · · · · · · · · · · ·		l	
	24.				
- 1	25.	**************************************			
- 1					· · ·
- 1	26.				
- 1	27.				
1					1
- [28.	······································	_		
- 1	29.				
-	49.				

FORM I VOA-TIC

30.

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM MW-10 Method: 8260B Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 3340 Matrix: (soil/water) WATER Lab Sample ID: 334004 Sample wt/vol: 5 (q/ml) ML Lab File ID: 334004B61 Level: (low/med) LOW Date Received: 06/16/04 % Moisture: not dec. Date Analyzed: 06/24/04 GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0 Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 75-71-8-----Dichlorodifluoromethane 74-87-3-----Chloromethane 5.0 U 75-01-4-----Vinyl Chloride 5.0 U 74-83-9-----Bromomethane 5.0 U 5.0 UJ 5.0 U 75-00-3-----Chloroethane 75-69-4----Trichlorofluoromethane 5.0 U 5.0 U 5.0 U 75-35-4----1,1-Dichloroethene_ 75-15-0-----Carbon disulfide 76-13-1----1,1,2-trichloro-1,2,2-triflu 67-64-1------Acetone 75-09-2-----Methylene Chloride 13 UR 156-60-5----trans-1,2-Dichloroethene 5.0 U 1634-04-4-----Methyl-tert-butyl ether_ 5.0 U 75-34-3-----1,1-Dichloroethane 5.0 U 156-59-2----cis-1,2-Dichloroethene 5.0 U 5.0 78-93-3-----2-butanone U 67-66-3-----Chloroform 13 0 71-55-6-----1,1,1-Trichloroethane 5.0 U 56-23-5-----Carbon Tetrachloride 5.0 U 71-43-2-----Benzene 5.0 U 107-06-2----1,2-Dichloroethane 5.0 5.0 U 79-01-6-----Trichloroethene 78-87-5-----1,2-Dichloropropane 5.0 U 5.0 U 75-27-4-----Bromodichloromethane 10061-01-5----cis-1,3-Dichloropropene 5.0 U 5.0 U 108-10-1-----4-Methyl-2-pentanone 108-88-3-----Toluene 10061-02-6----trans-1,3-Dichloropropene 79-00-5-----1,1,2-Trichloroethane 13 U 5.0 U 5.0 U 5.0 U 127-18-4-----Tetrachloroethene

FORM I VOA

591-78-6-----2-hexanone

124-48-1-----Dibromochloromethane

106-93-4----1,2-Dibromoethane

5.0 U

5.0 U 5.0 11

13 U

CLIENT SAMPLE NO.

	Lab Name: COMPUCHEM	Method	l: 8260B	MW-10	
	Lab Code: LIBRTY Case N	No.: SAS No.	; SDG	No.: 3340	
-39	Matrix: (soil/water) WATER		Lab Sample ID:		
.}	Sample wt/vol: 5	(g/ml) ML	Lab File ID:	334004B61	
	Level: (low/med) LOW		Date Received:		
a resolution	% Moisture: not dec.		Date Analyzed:		
	GC Column: RTX-VMS ID: 0	.18 (mm)	Dilution Facto		
j	Soil Extract Volume:	(uL)	Soil Aliquot V		uL
Separate Sep	CAS NO. COME	CONCE POUND (ug/L	NTRATION UNITS: or ug/Kg) UG/L		uр
PRINCIPALA	108-90-7	ylbenzene rene moform propyl Benzene 2,2-Tetrachloroetha Dichlorobenzene Dichlorobenzene Dichlorobenzene Dibromo-3-Chloropro 4-Trichlorobenzene ene (total) pyl acetate	nepane_	5.0 U 5.0 U 5.0 U 5.0 U 5.0 U 5.0 U 5.0 U 5.0 U 5.0 U 5.0 U 5.0 U 5.0 U 5.0 U 5.0 U 5.0 U 5.0 U 5.0 U 5.0 U 5.0 U 5.0 U	

FORM I VOA

CLIENT SAMPLE NO.

	Lab Name: COMPUCHEM		Contract: 8260B	MW-10
	Lab Code: LIBRTY	Case No.:	Charles	No.
	Matrix: /goil/		SDG	No.: 3340
4	Matrix: (soil/water)	WATER	Lab Sample ID:	334004
	Sample wt/vol:	5 (g/ml) ML		
	7.0103 (7 / 7.		Lab File ID:	334004B61
100 mg	Level: (low/med)	LOW	Date Received:	06/16/04
j	% Moisture: not dec.			
			Date Analyzed:	06/24/04
7	GC Column: RTX-VMS	ID: 0.18 (mm)		
2	Coil Barrell		Dilution Factor	r: 1.0
f	Soil Extract Volume:	(uL)	Soil Aliquot Vo	olume:(u
ે કે			CONCENTION	

Number TICs found: 1

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	FOT COM	
1. 275-51-4 A2		= =====================================	EST. CONC.	
-7	ZULENE	6.64		= = = =
3			. 1	6 NJ
4.			-	_
5.		-	-	-
6.				
7				
8.				_
9.				-
0.				_
				_
1				_
2.		·	1	
4				
5.				
7				
3				
]
•				
				
				
		.		

FORM I VOA-TIC

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM MW-11 Method: 8260B Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 3340 Matrix: (soil/water) WATER Lab Sample ID: 334003 Sample wt/vol: (g/ml) ML Lab File ID: 334003B61 Level: (low/med) LOW Date Received: 06/16/04 % Moisture: not dec. Date Analyzed: 06/24/04 GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0 Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L

		×
75-71-8	5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	מממממממממממממממממממם ל
107-06-21,2-Dichloroethane 79-01-6Trichloroethene 78-87-51,2-Dichloropropane 75-27-4Bromodichloromethane 10061-01-5	5.0 5.0 5.0 5.0 5.0 5.0	ממממממממממ
591-78-62-hexanone 124-48-1Dibromochloromethane 106-93-41,2-Dibromoethane FORM I VOA	13 5.0 5.0	U

FORM I VOA

Stroly

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM		Method: 8260B	MW-11
Lab Code: LIBRTY	Case No.:	SAS No.:	DG No.: 3340
Matrix: (soil/water)	WATER	Lab Sample	
Sample wt/vol: Level: (low/med)	5 (g/ml) ML LOW		: 334003B61
% Moisture: not dec.		Date Analyza	ed: 06/16/04 ed: 06/24/04
GC Column: RTX-VMS	(Dilution Fac	
Soil Extract Volume:	(UL)	Soil Aliquot CONCENTRATION UNIT (ug/L or ug/Kg) UC	CS: C/L Q
100-41-4 100-42-5 75-25-2 98-82-8 79-34-5 541-73-1 106-46-7 95-50-1 96-12-8 120-82-1 1330-20-7	BromoformIsopropyl Benzer1,1,2,2-Tetrachl1,3-Dichlorobenz1,4-Dichlorobenz1,2-Dichlorobenz1,2-Dibromo-3-Ch1,2,4-TrichlorobXylene (total)	coroethane sene sene loropropane enzene	5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0

CLIENT SAMPLE NO.

•	Lab Name: COMPUCHEM	Contract: 8260B MW-11
	Lab Code: LIBRTY Case No.:	SAS No.: SDG No.: 3340
.]	Matrix: (soil/water) WATER	Lab Sample ID: 334003
. }	Sample wt/vol: 5 (g/ml) ML	
	Level: (low/med) LOW	Date Received: 06/16/04
	% Moisture: not dec.	Date Analyzed: 06/24/04
ALCO TANKS	GC Column: RTX-VMS ID: 0.18 (mm)	Dilution Factor: 1.0
-}	Soil Extract Volume:(uL)	Soil Aliquot Volume:(u
5		

Number TICs found: 3

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 259-79-0 2. 673-32-5 3. 91-20-3 4.	BIPHENYLENE BENZENE, 1-PROPYNYL- NAPHTHALENE	4.87 5.93 6.63	5.3	NJ NJ NJ
6. 7. 8.				
10. 11. 12. 13.				
15. 16. 17.				
19. 20. 21. 22.				
24. 25. 26.				
28. 29. 30.				

FORM I VOA-TIC

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM MW-12 Method: 8260B Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 3340 Matrix: (soil/water) WATER Lab Sample ID: 334001 Sample wt/vol: (g/ml) ML Lab File ID: 334001B61 Level: (low/med) LOW Date Received: 06/15/04 % Moisture: not dec. Date Analyzed: 06/23/04 GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0 Soil Extract Volume: (uL) Soil Aliquot Volume: ____(uL CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q 75-71-8-----Dichlorodifluoromethane 74-87-3-----Chloromethane 5.0 U 75-01-4------Vinyl Chloride 5.0 U 5.0 U 74-83-9-----Bromomethane 5.0 U 5 75-00-3-----Chloroethane 75-69-4-----Trichlorofluoromethane 5.0 U 75-35-4-----1,1-Dichloroethene 5.0 U 75-15-0-----Carbon disulfide 5.0 U 76-13-1-----1,1,2-trichloro-1,2,2-triflu 5.0 U 67-64-1-----Acetone 5.0 ľŪ 75-09-2-----Methylene Chloride 13 02 156-60-5----trans-1,2-Dichloroethene 5.0 U 1634-04-4-----Methyl-tert-butyl ether 5.0 U 75-34-3-----1,1-Dichloroethane 5.0 U 156-59-2----cis-1,2-Dichloroethene 5.0 U 5.0 78-93-3-----2-butanone U 67-66-3-----Chloroform 13 U 71-55-6------1,1,1-Trichloroethane 56-23-5------Carbon Tetrachloride 5.0 U 5.0 U 5.0 U 71-43-2-----Benzene 107-06-2----1,2-Dichloroethane 5.0 U 79-01-6-----Trichloroethene 5.0 U 78-87-5-----1,2-Dichloropropane 5.0 U 75-27-4-----Bromodichloromethane 5.0 U 10061-01-5----cis-1,3-Dichloropropene 5.0 108-10-1-----4-Methyl-2-pentanone 5.0 U 108-88-3-----Toluene 13 | U 10061-02-6----trans-1,3-Dichloropropene 79-00-5-----1,1,2-Trichloroethane Ū 5.0 5.0 U 5.0 U 127-18-4-----Tetrachloroethene 591-78-6-----2-hexanone 5.0 U 124-48-1-----Dibromochloromethane 13 U 106-93-4-----1,2-Dibromoethane 5.0 U

FORM I VOA

8/23/07

5.0

CLIENT SAMPLE NO.

	Lab Name: COMPUCHEM	Method: 8260B	MW-12	
, the same of the	Lab Code: LIBRTY Case No.:	SAS No.: SDG	No.: 3340	I
A CONTRACTOR OF THE PARTY OF TH	Matrix: (soil/water) WATER	Lab Sample ID:	334001	
ı.İ	Sample wt/vol: 5 (g/ml) ML	Lab File ID:	334001B61	
-	Level: (low/med) LOW	Date Received:	06/15/04	
	% Moisture: not dec.	Date Analyzed:	06/23/04	
9	GC Column: RTX-VMS ID: 0.18 (mm)	Dilution Facto	r: 1.0	
	Soil Extract Volume:(uL)	Soil Aliquot V	olume:	(uL
	CAS NO. COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		
Andreas Andrea	108-90-7	ene	5.00 UU UU UU UU UU UU UU UU UU UU UU UU U	

CLIENT SAMPLE NO.

3	Lab Name: COMPUCHEM	Contract: 8260B	MW-12	
The Park	Lab Code: LIBRTY Case No.:		No.: 3340	
}	Matrix: (soil/water) WATER	Lab Sample ID:		
}	Sample wt/vol: 5 (g/ml) ML			
•	Level: (low/med) LOW	Date Received:		
	% Moisture: not dec.	Date Analyzed:	•	
	GC Column: RTX-VMS ID: 0.18 (mm)	Dilution Factor		
i	Soil Extract Volume:(uL)	Soil Aliquot Vo		1]
		CONCERTMENT		

Number TICs found: 2

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 95-13-6 2. 91-20-3 3.	INDENE NAPHTHALENE	5.93	8 8	==== NJ
5 . 6 . 7 . 8 .				
9. 10. 11.				
3 , 4 . 5 . 6 .				
7. 8. 9.				
1 2 3				
5. 6				
8 9 0				

FORM I VOA-TIC

CLIENT SAMPLE NO.

MW-12-061504 Lab Name: COMPUCHEM Method: 8260B Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 3340 Matrix: (soil/water) WATER Lab Sample ID: 334002 Sample wt/vol: 5 (g/ml) ML Lab File ID: 334002B61 Level: (low/med) LOW Date Received: 06/16/04 % Moisture: not dec. Date Analyzed: 06/23/04 GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0 Soil Extract Volume: (uL) Soil Aliquot Volume: ____(uL

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 75-71-8-----Dichlorodifluoromethane 74-87-3-----Chloromethane 5.0 U 75-01-4-----Vinyl Chloride 5.0 U 5.0 U 74-83-9-----Bromomethane 5.0 UJ 75-00-3-----Chloroethane 75-69-4-----Trichlorofluoromethane 5.0 U 5.0 U 5.0 U 5.0 U 75-35-4-----1,1-Dichloroethene 75-15-0-----Carbon disulfide 76-13-1----1,1,2-trichloro-1,2,2-triflu 67-64-1------Acetone 75-09-2-----Methylene Chloride 13 UR 156-60-5----trans-1,2-Dichloroethene 5.0 U 1634-04-4-----Methyl-tert-butyl ether 5.0 U 75-34-3-----1,1-Dichloroethane 5.0 U 156-59-2----cis-1,2-Dichloroethene 5.0 U 78-93-3-----2-butanone 5.0 U 67-66-3------Chloroform 13 U 71-55-6-----1,1,1-Trichloroethane 5.0 56-23-5-----Carbon Tetrachloride 5.0 U 71-43-2-----Benzene 5.0 U 107-06-2-----1,2-Dichloroethane 5.0 U 5.0 U 79-01-6-----Trichloroethene 78-87-5----1,2-Dichloropropane 5.0 U 75-27-4-----Bromodichloromethane 5.0 U 10061-01-5----cis-1,3-Dichloropropene 5.0 U 108-10-1-----4-Methyl-2-pentanone 5.0 U 108-88-3-----Toluene 13 U 10061-02-6----trans-1,3-Dichloropropene_79-00-5----1,1,2-Trichloroethane 5.0 U 5.0 ប 127-18-4----Tetrachloroethene 5.0 U 591-78-6----2-hexanone 5.0 U 124-48-1-----Dibromochloromethane 13 U

FORM I VOA

106-93-4-----1,2-Dibromoethane

Inly

5.0 U 5.0 U

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM MW-12-061504 Method: 8260B Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 3340 Matrix: (soil/water) WATER Lab Sample ID: 334002 Sample wt/vol: (g/ml) ML Lab File ID: 334002B61 Level: (low/med) LOW Date Received: 06/16/04 % Moisture: not dec. Date Analyzed: 06/23/04 GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0 Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 108-90-7-----Chlorobenzene_ 100-41-4----Ethylbenzene 100-42-5----Styrene 5.0 U 5.0 U 5.0 U 75-25-2-----Bromoform
98-82-8-----Isopropyl Benzene
79-34-5-----1,1,2,2-Tetrachloroethane
541-73-1----1,3-Dichlorobenzene 106-46-7-----1,4-Dichlorobenzene 95-50-1----1,2-Dichlorobenzene 96-12-8-----1,2-Dibromo-3-Chloropropane 120-82-1-----1,2,4-Trichlorobenzene 1330-20-7------Xylene (total) 79-20-9-------Methyl acetate 5.0 U 110-82-7-----Cyclohexane 5.0 U

108-87-2----Methylcyclohexane

5.0 U 5.0 U

CLIENT SAMPLE NO.

				OOME	J	
Lab	Name:	COMPUCHEM		Contract: 8	8260B	MW-12-061504
- 2	O-4-	* *******	_		'	

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 3340 Matrix: (soil/water) WATER Lab Sample ID: 334002

Sample wt/vol: 5 (g/ml) ML Lab File ID: 334002B61

Level: (low/med) LOW Date Received: 06/16/04 % Moisture: not dec.

Date Analyzed: 06/23/04

GC Column: RTX-VMS ID: 0.18 (mm)

Date Analyzed: 06/23/04

Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	1		J, _	
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 673-32-5 2. 91-20-3 3.	BENZENE, 1-PROPYNYL- NAPHTHALENE	5.93	6.1	=====
5. 6. 7. 8.				
9. 10. 11. 12.				
13				
17. 18. 19.				
20. 21. 22. 23.				
24. 25. 26. 27.				
28. 29. 30.				

FORM I VOA-TIC

APPENDIX D SUPPORT DOCUMENTATION

Sol Madron Ave. Carry, NC 27513 Phone: 919-379-4100 Pax 919-379-40 Company Name Michael Rinal Address OI Town Ce Are Are We Sampling Logation Address OI Town Ce Are Are We Sampling Logation Froject Name Are Represent Specific? If Specific, which Sample ID? Project Contact When Are Represent Specific? If Specific, which Sample ID? Are Represent Specific? If Specific, which Sample ID? Are Represent Specific? If Specific, which Sample ID? Are Represent Specific? If Specific, which Sample ID? Are Represented in Reserved Bottles Field ID Date Time Matrix bottles II I I I I I I I I I I I I I I I I I		Page of
Company Name Mile Cult. Address Of Two Carries of Maria guessian Sampling Logation Froject Contact Way face Froject Contact Way face Froject Contact Way face Froject Contact Are auguous samples field filtered for megalar Y or N Are high concentrations expected Y y N N If yes, which ID(s)? Whith and I way face Field ID Date Time Matrix bottles Field ID Date Time Matrix bottles Field ID Are auguous samples field filtered for megalar Y or N Number of Preserved Bottles Whith and I way face Field ID Date Time Matrix bottles Field ID Collection Collection Field ID Date Time Matrix bottles Field ID Collection Covaride samples checked for sulfide & chlorine? Y or NA Covaride samples checked for followine? Y or NA Covaride samples checked for followine? Y or NA Covaride samples checked for pH between 5.0-9.0? Y or NA Received by: Date/Time: Elinquished by: Date/Time: Linquished by: Linquished by: Date/Time: Linquished by: Linquished by: Linquished by: Linquished by: Date/Time: Linquished by: Linquished by: Linquished by: Linquished by: Linquished by: Linquished by: Linquished by: Linquished by: Linquished by: Linquished by: Linquished by: Linquished by: Linquished by: Linquished by: Linquished by: Linquished by	Courier	feel ex or
Address of the project Name ATH DRS Address of the Article State Article Sampling Location City Froject Contact Are agreeous samples field filtered for metallar Y or N Sample Name Are high concentrations expected Y or N' If yes, which ED(s)? Collection Number of Preserved Rottles Field ID Date Time Matrix bootles II S II S II S II S II S II S II S II	Airbill No.	
Address OI Two Ce Are D 600 Sampling Location Project Contact Way Pace Basch OC of Project Specific, which Sample ID? Phone 7 37 87 3 8700 Are agreeous samples field filtered for metally Y or N N Are high concentrations expectedly Y or N' If yes, which D69? Sampler a Name Are thigh concentrations expectedly Y or N' If yes, which D69? Collection Field ID Date Time Matrix bottles Field ID Date Time Matrix bottles Field ID Sampler a Name Collection Collec	Sampling Co	mplete? Y on N
Sampling Location State 2 20		GW - Ground wa
The contest of the co		WW - Waste wat
Batch QC og Project Specific? If Specific, which Sample ID? Are aqueous samples field filtered for megalar Y or N Are high concentrations expected? Y or N' If yes, which ID(s)? Are high concentrations expected? Y or N' If yes, which ID(s)? Collection Number of Preserved Bottles Field ID Date Time Matrix bottles H Z H H J H J H J H J H J H J H J H J H		SW - Surface wa
Batch QC og Project Specific? If Specific, which Sample ID? Are aqueous samples field filtered for megalet? Y or N Are high concentrations expected? Y or N? If yes, which ID(s)? Are high concentrations expected? Y or N? If yes, which ID(s)? Coffection Number of Preserved Bottles Field ID Date Time Matrix bottles H Z H H Z H H Z H H Z H H Z H H Z H H Z H H Z H H Z H H Z H Z H H Z		SO - Soil/Sedime
Are aqueous samples field filtered for metalor Y or N Are high concentrations expected Y or N? If yes, which ID(s)? Collection Number of Preserved Bottles Pield ID Date Time Matrix bottles H Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z		TB - Trip Blank RI - Rinsate
Are aqueous samples field filtered for metaler Y or N Are high concentrations expected Y or N? If yes, which ID(s)? Collection Date Time Matrix bottles H 2 2 H		WP - Wipe
Are high concentrations expected? Y or N? If yes, which ID(s)? Cotlection Number of Preserved Bottles Pield ID Date Time Matrix bottles H Signature Cyanide samples checked for sulfide & chlorine? Y or NA cople Order Entry By: Copple Unpacked By: Cyanide samples checked for pH between 5.0-9.0? Y or NA copples Received by: Date/Time: Date/Time: Cyanide samples checked by: Date/Time: Cyanide samples checked for pH between 5.0-9.0? Y or NA copples apples the concentrations expected? Y or NA copples apples the concentrations expected? Y or N/ Na copples apples the concentrations expected? Y or N/ Na copples apples the concentrations expected? Y or N/ Na copples apples the concentrations expected? Y or N/ Na copples apples the concentrations expected? Y or N/ Na copples apples the concentrations expected? Y or N/ Na copples apples the concentrations expected? Y or N/ Na copples apples the concentrations expected? Y or N/ Na copples apples the concentrations expected? Y or N/ Na copples apples the concentrations expected? Y or N/ Na copples apples the concentrations expected? Y or N/ Na copples apples the concentrations expected? Y or N/ Na copples apples the concentrations expected? Y or N/ Na copples apples the concentrations expected? Y or N/ Na copples apples the concentrations expected? Y or N/ Na copples apples the concentrations expected by the copples apples the concentrations expected by the copples apples the copples apples the copples apples the copples apples the copples apples the copples apples the copples apples the copples apples apples the copples apples the copples apples the copples apples apples the copples apples the copples apples the copples apples apples the copples apples the copples apples the copples apples apples the copples apples the copples apples the copples apples apples the copples apples apples the copples apples the copples apples the copples apples the copples apples the copples apples apples the copples apples the copples apples the copples apples		O - Other
Field ID Date Time Matrix bottles		
Pield ID Date Time Matrix bottles H D D D D D D D D D D D D		
Field ID Date Time Matrix # of trix # of Date Date Date Time Matrix # of Date Date Date Date Time Matrix # of Date Da		
Field ID Date Time Matrix bottles H Z Received by: Matrix bottles H Z Received by: Matrix bottles H Z Received by: Matrix bottles H Z Z Received by: Matrix bottles H Z Z Z Z Z Z Z Z Z Z Z Z		
inquished by: Date/Time: 14 04 17:20 Received by: MACKAGE Date/Time: 14 04 17:20 Received by: MACKAGE Date/Time: 14 04 17:20 Received by: MACKAGE Date/Time: 14 04 17:20 Received by: MACKAGE Date/Time: 14 04 17:20 Received by: MACKAGE Date/Time: 14 04 17:20 Received by: MACKAGE Date/Time: 14 04 17:20 Received by: MACKAGE Date/Time: 14 04 17:20 Received by: MACKAGE Date/Time: 14 04 17:20 Received by: MACKAGE Date/Time: 14 04 17:20 Received by: MACKAGE Date/Time: 14 04 17:20 Received by: MACKAGE Date/Time: 14 04 17:20 Received by: MACKAGE Date/Time: 15 16 16 16 16 16 16 16		
inquished by: Date/Time: 14 04 17:20 Received by: MACKAGE Date/Time: 14 04 17:20 Received by: MACKAGE Date/Time: 14 04 17:20 Received by: MACKAGE Date/Time: 14 04 17:20 Received by: MACKAGE Date/Time: 14 04 17:20 Received by: MACKAGE Date/Time: 14 04 17:20 Received by: MACKAGE Date/Time: 14 04 17:20 Received by: MACKAGE Date/Time: 14 04 17:20 Received by: MACKAGE Date/Time: 14 04 17:20 Received by: MACKAGE Date/Time: 14 04 17:20 Received by: MACKAGE Date/Time: 14 04 17:20 Received by: MACKAGE Date/Time: 14 04 17:20 Received by: MACKAGE Date/Time: 15 04 04 04 04 04 04 04 0		
inple Unpacked By: Cyanide samples checked for sulfide & chlorine? Y or NA sples Order Entry By: Office of N sples Received in Good Condition? Or N sples Received in Good Condition? Or N sples Received in Good Condition? Or N sples Received for pH between 5.0-9.0? Y or NA sples Received by: Date/Time: 14 104 17:32 Received by: MADIMA sples Received by: Date/Time: 14 104 17:32 Received by: MADIMA sples Received by: Date/Time: 14 104 17:32 Received by: MADIMA sples Received by: Date/Time: 14 104 17:32 Received by: MADIMA sples Received by: Date/Time: 14 104 17:32 Received by: MADIMA sples Received by: Date/Time: 14 104 17:32 Received by: MADIMA sples Received by: Date/Time: 14 104 17:32 Received by: MADIMA sples Received by: Date/Time: 14 104 17:32 Received by: MADIMA sples Received by: Date/Time: 14 104 17:32 Received by: MADIMA sples Received by: Date/Time: 14 104 17:32 Received by: MADIMA sples Received by: Date/Time: 14 104 17:32 Received by: MADIMA sples Received by: Date/Time: 14 104 17:32 Received by: MADIMA sples Received by: MADIMA spl	╃╌┾╾ ╂┈╁	
pple Order Entry By: 625 & Phenol samples checked for chlorine? Y or NA 625 & Phenol samples checked for chlorine? Y or NA 608 samples checked for pH between 5.0-9.0? Y or NA 608 samples checked for pH between 5.0-9.0? Y or NA Comparished by: Date/Time:		
pple Order Entry By: 625 & Phenol samples checked for chlorine? Y or NA 625 & Phenol samples checked for chlorine? Y or NA 608 samples checked for pH between 5.0-9.0? Y or NA 608 samples checked for pH between 5.0-9.0? Y or NA Comparished by: Date/Time:		
pple Order Entry By: 625 & Phenol samples checked for chlorine? Y or NA 625 & Phenol samples checked for chlorine? Y or NA 608 samples checked for pH between 5.0-9.0? Y or NA 608 samples checked for pH between 5.0-9.0? Y or NA Comparished by: Date/Time: 114 04 17:30 Received by: 340 044.	†	
pple Order Entry By: 625 & Phenol samples checked for chlorine? Y or NA 625 & Phenol samples checked for chlorine? Y or NA 608 samples checked for pH between 5.0-9.0? Y or NA 608 samples checked for pH between 5.0-9.0? Y or NA Comparished by: Date/Time: 114 04 17:30 Received by: 340 044.		
piple Order Entry By: 625 & Phenol samples checked for chlorine? Y or NA 625 & Phenol samples checked for chlorine? Y or NA 608 samples checked for pH between 5.0-9.0? Y or NA 608 samples checked for pH between 5.0-9.0? Y or NA 608 piples checked for pH between 5.0-9.0? Y or NA 608 piples checked for pH between 5.0-9.0? Y or NA 609 piples checked for pH between 5.0-9.0? Y or NA		
pple Order Entry By: 625 & Phenol samples checked for chlorine? Y or NA 625 & Phenol samples checked for chlorine? Y or NA 625 & Phenol samples checked for pH between 5.0-9.0? Y or NA 625 & Phenol samples checked for pH between 5.0-9.0? Y or NA 625 & Phenol samples checked for pH between 5.0-9.0? Y or NA 625 & Phenol samples checked for pH between 5.0-9.0? Y or NA 626 & Phenol samples checked for pH between 5.0-9.0? Y or NA 627 & Phenol samples checked for pH between 5.0-9.0? Y or NA 628 & Phenol samples checked for pH between 5.0-9.0? Y or NA 629 & Phenol samples checked for pH between 5.0-9.0? Y or NA 629 & Phenol samples checked for pH between 5.0-9.0? Y or NA 629 & Phenol samples checked for pH between 5.0-9.0? Y or NA 629 & Phenol samples checked for pH between 5.0-9.0? Y or NA 629 & Phenol samples checked for pH between 5.0-9.0? Y or NA 629 & Phenol samples checked for pH between 5.0-9.0? Y or NA 629 & Phenol samples checked for pH between 5.0-9.0? Y or NA 629 & Phenol samples checked for pH between 5.0-9.0? Y or NA 629 & Phenol samples checked for pH between 5.0-9.0? Y or NA 629 & Phenol samples checked for pH between 5.0-9.0? Y or NA 629 & Phenol samples checked for pH between 5.0-9.0? Y or NA 629 & Phenol samples checked for pH between 5.0-9.0? Y or NA 629 & Phenol samples checked for pH between 5.0-9.0? Y or NA 629 & Phenol samples checked for pH between 5.0-9.0? Y or NA 629 & Phenol samples checked for pH between 5.0-9.0? Y or NA 629 & Phenol samples checked for pH between 5.0-9.0? Y or NA		- - - - - - - - - -
piple Order Entry By: 625 & Phenol samples checked for chlorine? Y or NA 625 & Phenol samples checked for chlorine? Y or NA 608 samples checked for pH between 5.0-9.0? Y or NA 608 samples checked for pH between 5.0-9.0? Y or NA 608 piples checked for pH between 5.0-9.0? Y or NA 608 piples checked for pH between 5.0-9.0? Y or NA 609 piples checked for pH between 5.0-9.0? Y or NA	┞═╄╼ ╄╼╁╼╁	
pple Order Entry By: 625 & Phenol samples checked for chlorine? Y or NA 625 & Phenol samples checked for chlorine? Y or NA 608 samples checked for pH between 5.0-9.0? Y or NA 608 samples checked for pH between 5.0-9.0? Y or NA Comparished by: Date/Time: 114 04 17:30 Received by: 340 044.	 	
piple Order Entry By: 625 & Phenol samples checked for chlorine? Y or NA 625 & Phenol samples checked for chlorine? Y or NA 608 samples checked for pH between 5.0-9.0? Y or NA 608 samples checked for pH between 5.0-9.0? Y or NA 608 piples checked for pH between 5.0-9.0? Y or NA 608 piples checked for pH between 5.0-9.0? Y or NA 609 piples checked for pH between 5.0-9.0? Y or NA		
piple Order Entry By: 625 & Phenol samples checked for chlorine? Y or NA 625 & Phenol samples checked for chlorine? Y or NA 608 samples checked for pH between 5.0-9.0? Y or NA 608 samples checked for pH between 5.0-9.0? Y or NA 608 piples checked for pH between 5.0-9.0? Y or NA 608 piples checked for pH between 5.0-9.0? Y or NA 609 piples checked for pH between 5.0-9.0? Y or NA		
piple Order Entry By: 625 & Phenol samples checked for chlorine? Y or NA 625 & Phenol samples checked for chlorine? Y or NA 608 samples checked for pH between 5.0-9.0? Y or NA 608 samples checked for pH between 5.0-9.0? Y or NA 608 piples checked for pH between 5.0-9.0? Y or NA 608 piples checked for pH between 5.0-9.0? Y or NA 609 piples checked for pH between 5.0-9.0? Y or NA	 	
pple Order Entry By: 625 & Phenol samples checked for chlorine? Y or NA 625 & Phenol samples checked for chlorine? Y or NA 608 samples checked for pH between 5.0-9.0? Y or NA 608 samples checked for pH between 5.0-9.0? Y or NA Comparished by: Date/Time: 114 04 17:30 Received by: 340 044.	 	
aples Order Entry By: 625 & Phenol samples checked for chlorine? Y or NA 625 & Phenol samples checked for chlorine? Y or NA 608 samples checked for pH between 5.0-9.0? Y or NA 608 samples checked for pH between 5.0-9.0? Y or NA 608 phenol samples checked for pH between 5.0-9.0? Y or NA 608 phenol samples checked for pH between 5.0-9.0? Y or NA 608 phenol samples checked for pH between 5.0-9.0? Y or NA 609 phenol samples checked for pH between 5.0-9.0? Y or NA 609 phenol samples checked for pH between 5.0-9.0? Y or NA 609 phenol samples checked for pH between 5.0-9.0? Y or NA 609 phenol samples checked for pH between 5.0-9.0? Y or NA 609 phenol samples checked for pH between 5.0-9.0? Y or NA 609 phenol samples checked for pH between 5.0-9.0? Y or NA 609 phenol samples checked for pH between 5.0-9.0? Y or NA 609 phenol samples checked for pH between 5.0-9.0? Y or NA 609 phenol samples checked for pH between 5.0-9.0? Y or NA 609 phenol samples checked for pH between 5.0-9.0? Y or NA 609 phenol samples checked for pH between 5.0-9.0? Y or NA 609 phenol samples checked for pH between 5.0-9.0? Y or NA 609 phenol samples checked for pH between 5.0-9.0? Y or NA 609 phenol samples checked for pH between 5.0-9.0? Y or NA		
pple Order Entry By: 625 & Phenol samples checked for chlorine? Y or NA 625 & Phenol samples checked for chlorine? Y or NA 608 samples checked for pH between 5.0-9.0? Y or NA 608 samples checked for pH between 5.0-9.0? Y or NA Comparished by: Date/Time:		
pple Order Entry By: 625 & Phenol samples checked for chlorine? Y or NA 625 & Phenol samples checked for chlorine? Y or NA 608 samples checked for pH between 5.0-9.0? Y or NA 608 samples checked for pH between 5.0-9.0? Y or NA Comparished by: Date/Time: 114 04 17:30 Received by: 340 044.		
oples Received in Good Condition? For N 608 samples checked for pH between 5.0-9.0? Y or NA 608 samples checked for pH between 5.0-9.0? Y or NA inquished by: Date/Time: // 14 04 17:30 Received by: //// //////////////////////////////		
inquished by: Date/Time: // 14 04 17:30 Received by: // Management of the per netween 5.0-9.07 Y or NA Date/Time: // 14 04 17:30 Received by: // Management of the per netween 5.0-9.07 Y or NA Date/Time: // 14 04 17:30 Received by: // Management of the per netween 5.0-9.07 Y or NA		
inquished by: Date/Time: // 14 04 17:30 Received by: // 14 04 1		
inquished by: Date/Time:		
nquished by:		
	Dat Dat	te/Time: 6/18/04 8.1.1
TO IN II YES, WHERE!		te/Time:
ples stored 60 days after date report mailed at no extra charge. Custody Scal(s) intact? Y or N On I		oler Terror 4/2

a division of Liberty A		F				C		501 Ma	dison A	lve.				To	7	Page	01			
Comment						Pho	ne: Ot	Cary,	VC 275	13				Couri		dex		 (<u> </u>	
Company Name MALCOLM PIPME	Pro	icct Name				1110)	, y ₁	9-379-41	00 Fax	919-37	9-4040					plete? Y				
Address To Color h		ject Name	F4 	ix	S								~			Diete :	Oil N			
Land Courte 12 Talents	J.Sah	pline Locu	rion	Ri						-			1	1 1				GW.	Ground	d wat
Newfort New VA Zip 27/11	Then	around tim	e. 3 (- 1					- 1		SW.	Waste Surface	wate
Project Contact Tany PACE	Par	paround time	td						7	HOMES							1	50 - 5	oil/Sed	limen
Phone #		th QC or Pro	Sect Spec	itic? If s	pecifi	e which	h Sem	ole ID?	\dashv	Ž,			1	1 1	1			TB-1	rip Bla	nk
757 873-8700	Are	queous san	ples field	filtered	form	ctals?	7 ~ ^	W-10/	54	\mathfrak{F}				1 1				WP-T	Nipe	
Sampler's Name	Are I	igh concess						•		1				1 1			1	0.00	JCI.	
742		igh concent	u mions ex	pected?	Y or)	N? If y	cs, wh	ch ID(s)?	7											
	Collection	-			Numb	er of Pr	reserve	d Bottles	_ \	7					- 1					
	eu				ĺ	1 1		1	- 1	Š										
Field ID	Date Tim	E Marris	# of bottles	Į į	HOE	NHO3	12504	AEOH Ther	=	>				- 1	ı					
334002 MM-12	115 11:3	362	7	15	Ž.	2	표	Och Ch	Щ_											
234003 MH-11	1 14:0		<u> </u>	1					<u>ر</u> ا ر	1										
334004 MH-10				44-1					1~	-							 			L
mw-10/ms	15:3								丁レ		+	-								Γ
	15.4			111					10		 									\vdash
MW-10/MSD	V 15:50		V	U			_				 				- 1			77	_	Н
					1		-+		1	 			_				_	+++		H
			-	-					 			T	T			 +		++	-{-/	\vdash
		 											_		-	 		+		Ш
		 		-	\perp										+	 -		11		$ _ $
											-							$\perp 1$		
								+-												7
			T		7		-		-				\bot		1 .	IT		11	++	\dashv
Sample Unpacked By:								1									_	 	╆╅	\dashv
The City Resilies III	<i>l.d</i> -	Cynnide sar	mples che	ckéd fo	- wific	ic & chi	orine?	YOUNA)	(J) 1)										
pamples Received in Good Condition? /v \ 17		OLD OL PICE	or sample	38 Chock	ed for	chloria	-2 W	K. T		DV III	CHA	LA	مدلا	14/01	Lnuc	Hove	1/0/40	. w	4/14	oV
f no, explain:		608 sample	checked	for pH	betwee	n 5.0-9	.07 Y	* KA)										7	E	1
telinquished by:] [
elinquished by:		Date/Time		M	13:	20	Ren	ived by:] [
ubcontact? Y or N If yes, where?		Date/Time:	<u>. </u>					ived by:	\hookrightarrow	peu	Fu	die	2		Date/Ti	me: GK	and l		00	4

Andrews and the second of the

CompuChem a division of Liberty A	nalvti	cal Cr) 				Cl	(AF	IN (OF C	'US'	LOE	Ϋ́					P	age	(ot	1		
		CALL CO	л р .							Madiso						Con	rier	7	Ed	5×		-	
							Phone	: 919	Car -379-	y, NC 2 4100 1	7513 Fev 01	0.370	4040				il No.					<u>က်</u> :	
Company Name		Project N	Vame C					-			10.71	J-379-	1040			Sam	pling (Comple	te? Y	or N			
Address 701 TULLY CENTE DE	7	Sampling	Vanc 8	5 m		X	5														GW WV	- Gro / - Wa	ound water
City State State 276 News HP 236	est of	· CO DEL CO	THE STREET	<u>S</u> -	TO	24	••														so	Surf.	face water Sediment
Project Contact TOWY PACE	06	Batch QC	せん C or Proje	ct Specifi	c? J£ S	pecific	, which	Sam	ple ID												RI -	- Trip Rinsai - Wipe	
757 873-870		Are aque	C or Project	les field fi	ltered	for the	tals?	or i	10/	MSD												- wipe Other	
Sampler's Name TIMA JUNE	ŀ	Are high	concentra	tions exp	ected?	York	i? If y	es, wh	ich ID	(1)?	\ \frac{1}{2}												
	Collec	ction		<u></u>		Numb	er of P	réservi	ed Bot	iles	Ŝ												
Field ID	2004			#of	7.	VaOH	NHO3	H2SO4	МЕОН	5													
334005 MW- 06	Date	10:50	Matrix	bottles	2 HG	Ž	艺	H	X	Other	ļ.,	/	 	<u> </u>		_	<u> </u>	<u> </u>		<u> </u>			
334006 MW-06-Dur		1170	<u>.</u>		<u> </u>						-	-	 	_	 	ļ		<u> </u>	ļ		$\downarrow \downarrow$		$\bot \bot$
334007 MW- 155		12:00	V	1	U						7	<u> </u>	 -	-	-	-		-	 	-	\dashv	_	++
																 	-	+	-	\vdash	H	+	++
																			-	 	-	+	++
																			1	 	\Box	十	++
								_	_												\prod	+	++
	-																				П	\top	
					_																	$oxed{oxed}$	
					\dashv		\dashv	-													\sqcup	1	
ample Uppacked By:																							
ample Unpacked By Office Sample Order Entry By:	/		Cyanide s: 625 & Phe									Koo	-	2	you!	m	4 (14	Bla	15)	oof.	mi	Cyc
amples Received in Good Condition? Or N			608 sampl													.							
no, explain:			· · · · · · · · · · · · · · · · · · ·																				
telinquished by:			Date/Tim	e: Ju	e	6/0	4 11	2,0	decci	red by:	12	2/2	Q.		Z			Date !!	ime:	/12/		08:	7/6
elinquished by:			Date/Tim	ic:					Receiv	red by:					•			Date/I		// K	'1	011	4)
ubcontact? Y or N If yes, where?						- 1	A	L. D.		stact? 1			On Ice						Temp				

CompuChem a division of Liberty Analyt	ical Corp.		501 Madison Cary, NC 2 919-379-4100	n Ave.		Courier Airbill No.	Page Red E	or 1
Company Name MAL CULM PIRMIE, INC Address FOI TOWN CONTRE DC. #4600 City State Zip NEWLYET WENS VA 23606 Project Contact	Project Name 80 TH DAS Sampling Location PT STURY Turnaround time					Sampling (Complete? Y or	GW - Ground wat WW - Waste wate SW - Surface wate SO - Soil/Sedimen TB - Trip Blank
TONY PACE Phone # 757 - 873 8700 Sampler's Name TIMM JUNG	Basch QC or Project Specific? If S S MW-{0/MS E Are aqueous samples field fillered Are high concentrations expected?							RI - Rinsate WP - Wipe O - Other
Field ID Date	Time Matrix bottles # 1120 GM 3 3	Number of Pres	MEOH Other	765				
334009 MW- 68 334010 MW- 61 334011 MW- 61- DW	11:00 GM 3 3 13:00 1 13:30 1			\ \ \ \ \ \ \				
34012 mm - 02=	16:45 V V			7				
ple Unpacked By: Office Leple Order Entry By: Office Leple Secesived in Good Condition? Or N	Cyanide samples checked (625 & Phenol samples chec	cked for chlorine	7 Y OR NA					
explain: equished by: ontact? Y or N If yes, where?	Date/Time: 18:45		Received by:	W 00	unk	D	ate/Time: 6//	8/04 09:40
oblassioned 60 days after date report mailed at no extra charge.		Custody S	eal(s) intact?	Y N On	Ice? Or N White & Yellon	C	ate/Time: coler Temp; Pink conv for cu	2.6 ·c

New Assessment Control of the Contro

CompuChem a division of Lib	erty Analy	tical C	Corp.				C	HA			CUS.	LOD	Y					Pa	ge	_of_	1	
									C-							Cour		Fed	Ex	···		
Company Name Malcolm Pirnie, Inc.	TIT'S TE	e	2 20 30	1 CHEST	26.224		Phon	ie: 919	9-379	-4100	Fax 919	9-379-4	040			Airbi	II No.		-	٥	<u>) . </u>	
Malcolm Pirnie, Inc.		Project	Name	A	Sec. 2	n Kelendari	and) S	3			3 3 3	e de R	1	Attac	n e e	Sam	hod an	omple	e?Y	T NO	185 30	e de Vasa est an
					807	H	1>0	ک۔					ł							2.00	GW -	Ground w
701 Town Center Drive, Sur	lte 600		ng Locatio		FT		57	JUR			7	1	1				1				ww.	Waste wa
City State Zip Newport News, VA 23606			ound time		<u> </u>				!		_			1	ł				1	}		urface w
roject Contact		Sta	ndard																		ŧ	oil/Sedim io Blank
Tony Pace		Batch C	C or Proje	ect Specifi	c? If S	pecific	. whic	h Sam	ple ID	?	1										RI - Ri	
hone # (757) 873-8700			- MV							12	_	1 1		· .							WP - V	
		I.											ĺ				1				O - Oth	er
ampler's Name T. Jung		Are high	concentr	ations exp	ected?	YorN	1? If y	es, wh	ich ID	(s)?	1		1					1				
	Coll	ection	7		,							PCBs								i		
		Juni	1		-	Numb	er of P	reserve	ed Bot	tles	4	4		- 1		4		1.4				
	Just	ļ		# of		=	²	4	=		de l	7	4		TTH GRO	TOH BHO		7				
Field ID	Date	Time	Matrix		를 모	VaOH	NHO3	H2S04	MEOH	Other	3Vèes	Pest	dotals	\$	=	- 4	Φ	0				
134014 MW-87	6/8	11:15	6W	3		2	Z	프	Σ	ا ق	4	미	4	4	Ę	4	46	_>				
	<i>DI</i> 10	11	102	13	3							_	1		1							
			L													$\neg \dashv$						
		1	1																			
																l						
			 										- 1								-	
							- [- 1	- 1						_	_					┵	
													_4				[1				
													1				T				+-+	++
							.]												
		- 1	1																			
																		.	1	-	11	
						-		**								[T	\top			1-1	+
THE STREET STREET	2 2 20 6							-						_	$\neg \vdash$						++	
nple Unpacked By:	2	in the second						176			37 A	Velen.			30 BU	*	2	10 a 20 an	\$ S	C. Or. Av		
nple Order Entry By:	inner		•			N 20111	ue at c	шопп	e'Yn	+ N LJ	L					- A	Liege 11 & S	the or backet.	Fe set altimate major		Sec. Sec.	* · · · · · · · · · · · · · · · · · · ·
ples Received in Good Condition? Yor	N	- 15	25 & Phe	noi sample	s chec	ked for	chlor.	ine? Y	ov N					***								
o, explain:			i08 sample	a checked	for pH	betwe	en 5.0	-9.07	Y of N	A)												 -
141 年 141 年	Carrier Est	200	\$. T. 2.	Sec.	70.182	# 'C'	475, 14g t	territorio de														
inquished by:			Date/Time	UIX	o√/	163	Y)						100		EME.	18 B	X.	Male		200	100	7.70
nquished by:		i	Date/Time		<u> </u>	(0,0	<u>~_</u> _			d by: /	14	IA	ters.	· Co			D2	te/Tin	re: 6//	9/0	110	145
contact? Y or N If yes, where?						C			eceive		у		,	~			Da	te/Tin	10:	7		·
les stored 60 days after date report mailed at no	extra charge.					10	ustody	Seal	(s) int	act Z	or N	On	Ice Y	or N				oler T		-3		°C

CompuChem

a division of Liberty Analytical Corporation 501 Madison Avenue Cary, N.C. 27513

Tel: 919/379-4100 Fax: 919/379-4050

SDG NARRATIVE SDG # 3340 CONTRACT # SW-846 8260B

SAMPLE IDENTIFICATIONS: MW-01, MW-01 DUP, MW-02, MW-03, MW-05, MW-06, MW-06 DUP, MW-07, MW-08, MW-09, MW-10, MW-11, MW-12, MW-12-061504

The fourteen () aqueous samples listed above were received intact, refrigerated at a temperature of 2.3 to 4.2°C, with proper documentation, on June 16, 17, 18, and 24, 2004. The samples were scheduled for the requested volatile analysis by method 8260B 5ml purge for the TCL4 group of compounds plus vinyl acetate.

Analysis holding time requirements were met for the samples. The pH values of these samples are tabulated on the attached batch sheets.

All of the samples were analyzed neat and none of the samples contained a compound above the Contract Required Quantitation Limit (CRQL) except sample MW-09. Tentatively Identified Compounds (TICs) were found samples MW-05, MW-06, MW-06 DUP, MW-09, MW-10, MW-11, MW-12, and MW-12-061504.

All bromofluorobenzene (BFB) abundance criteria were met for tunes associated to this SDG. Overall QC criteria were met for all initial and continuing calibration standards associated to this SDG.

All of the system monitoring compounds met recovery criteria in the analyses of these samples. All of the internal standards met response and retention time criteria in the analyses of these samples. The associated method blanks met all quality control criteria.

A Laboratory control sample was analyzed with each batch for this SDG and passed all QC criteria. Sample MW-10 was used to prepare the matrix spikes. They passed the majority of the precision and accuracy

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Susan W. Bass

susan W Bus

Director of Laboratory Operations

July 7, 2004

FORM 4 VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO

Lab Name: COMPUCHEM

Contract: 8260B

VBLKBU

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 3340

Lab File ID: 37643B61_3340

Lab Sample ID: 37643

Date Analyzed: 06/24/04

Time Analyzed: 2156

GC Column: RTX-VMS ID: 0.18 (mm)

Heated Purge: (Y/N) Y

Instrument ID: 5973HP61

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

		LAB		
	CAMPID NO	TIME	LAB	TIME
	SAMPLE NO.	SAMPLE ID	FILE ID	2372777
			1 100 10	ANALYZED
01	VBULCS		. *********	
		37646	37646B61 334	
02	MW-03	334013	2240120271	2222
03	MW-07	224045	334013RB61	2312
0.5	1344-07	334014	334014B61	2222
04			100101101	2337
05	·		.1	1 1
0.5				
06				i i
07				
08) [
09				
09				I
10				1
11				
11				
12				l
121				
13				
14				i
13 14 15 16				
131.				
161				1
17	.			
- / /				
18				1
19				
121				
20	-			j
21				
21-				
221	- -			
22 23 24				
221-				
24	1			
25				
221-		į		
26				
27				
561-				
28				
29				
551-				
30				i
	······································			

COMMENTS:

page 1 of 1

FORM IV VOA

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM VBLKBU Method: 8260B Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 3340 Matrix: (soil/water) WATER Lab Sample ID: 37643 Sample wt/vol: (g/ml) ML Lab File ID: 37643B61_3340 Level: (low/med) LOW Date Received: % Moisture: not dec. Date Analyzed: 06/24/04 GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0 Soil Extract Volume:____(uL) Soil Aliquot Volume: ____(uL CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 0 75-71-8-----Dichlorodifluoromethane_ 74-87-3-----Chloromethane 5.0 U 75-01-4-----Vinyl Chloride 5.0 U 74-83-9-----Bromomethane 5.0 U 75-00-3-----Chloroethane 1.2 J 75-69-4-----Trichlorofluoromethane 5.0 U 75-35-4----1,1-Dichloroethene_ 5.0 U 75-15-0-----Carbon disulfide 5.0 U 76-13-1----1,1,2-trichloro-1,2,2-triflu 5.0 0 67-64-1-----Acetone
75-09-2-----Methylene Chloride 5.0 U 13 U 156-60-5----trans-1,2-Dichloroethene 5.0 U 1634-04-4-----Methyl-tert-butyl ether 5.0 U 75-34-3-----1,1-Dichloroethane 5.0 U 156-59-2----cis-1,2-Dichloroethene 5.0 U 78-93-3----2-butanone 5.0 U 67-66-3----Chloroform 13 U 71-55-6----1,1,1-Trichloroethane 5.0 U 56-23-5-----Carbon Tetrachloride 5.0 U 71-43-2-----Benzene 5.0 U 5.0 U 107-06-2----1,2-Dichloroethane 79-01-6----Trichloroethene 5.0 U 78-87-5-----1,2-Dichloropropane 5.0 U 75-27-4-----Bromodichloromethane 5.0 U 10061-01-5----cis-1,3-Dichloropropene 5.0 U 108-10-1-----4-Methyl-2-pentanone 5.0 U 108-88-3-----Toluene 13 U 10061-02-6----trans-1,3-Dichloropropene 79-00-5----1,1,2-Trichloroethane 5.0 U 5.0 U 127-18-4----Tetrachloroethene 5.0 U 591-78-6----2-hexanone 5.0 U 124-48-1-----Dibromochloromethane 13 U 106-93-4-----1,2-Dibromoethane 5.0 U

FORM I VOA

5.0

CLIENT SAMPLE NO.

٠	Lab Name: COMPUCHEM		Method: 8260B	VBLKBU
	Lab Code: LIBRTY	Case No.:	GNG 11	No.: 3340
Age of the contraction of the co	Matrix: (soil/water) Sample wt/vol: Level: (low/med) % Moisture: not dec. GC Column: RTX-VMS Soil Extract Volume:_	WATER 5 (g/ml) ML LOW	Lab Sample ID	: 37643 37643B61_3340 : 06/24/04 or: 1.0
	CAS NO.	COMPOUND	CONCENTRATION UNITS:	
•	100-41-4	StyreneBromoformIsopropyl Benzen1,1,2,2-Tetrachl1,3-Dichlorobenz1,4-Dichlorobenz1,2-Dichlorobenz -1,2-Dibromo-3-Ch -1,2,4-Trichlorob	oroethane ene ene ene loropropane enzene	5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0

FORM I VOA

CLIENT SAMPLE NO.

	Inh Name govern		COME COMES	
7	Lab Name: COMPUCHEM		Contract: 8260B	VBLKBU
3	Lab Code: LIBRTY	Case No.:	CACLY	
12	Matrix: (soil/water)	WATER	020	No.: 3340
	Sample wt/vol:		Lab Sample ID:	37643
•	Level: (low/med)	(3)(111) [11]	Lab File ID:	37643B61_3340
* * * * * * * * * * * * * * * * * * *	·	LOW	Date Received:	
.3	% Moisture: not dec.		Date Analyzed:	
~3	GC Column: RTX-VMS	ID: 0.18 (mm)		
3	Soil Extract Volume:	(uL)	Dilution Facto	
		(UL)	Soil Aliquot Vo	olume:(u
	Number TICs found: 1		CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	
			Q. J. ~3, 4	

CAC MINORE		or ug/kg	, ug/L	
CAS NUMBER	COMPOUND NAME	RT	EST. CONC	. Q
1. 13676-58-9	1-BUTENE, 1,4-DICHLORO-	5.4		== == = = = = = = = = = = = = = = = =
4				_
6.		_		
8.				
10.				
12.				
15.		-		-
17.				-
19.				
21.				
23.				
25. 26. 27.				
28.				
30.				

FORM I VOA-TIC

FORM 5 VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK BROMOFLUOROBENZENE (BFB)

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 3340

Lab File ID: BF040623B61

BFB Injection Date: 06/23/04

Instrument ID: 5973HP61

BFB Injection Time: 1720

GC Column: EQUITY624 ID: 0.53 (mm)

1-Value is % mass 174

Heated Purge: (Y/N) N

2-Value is % mass 176

m/e	ION ABUNDANCE CRITERIA	* RELATIVE
50 75	15.0 - 40.0% of mass 95	ABUNDANCE
95 96	30.0 - 60.0% of mass 95 Base Peak, 100% relative abundance	15.3
173	Less than 2.0% of mass 174	100.0
175	Greater than 50.0% of mass 95 5.0 - 9.0% of mass 174	0.5 (0.5)1 101.4
176	95.0 - 101.0% of mass 174	7.0 (6.9)1

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	1.					THE DIMINITY
ge 1 of 1	02 \\ 03 \\ 04 \\ 05 \\ 06 \\ 07 \\ 08 \\ 09 \\ 11 \\ 12 \\ M \\ 15 \\ M \\ 15 \\ M \\ 17 \\ 18 \\ 19 \\ 20 \\ 21 \\ 22 \\	VSTD050 VBLKWU VWULCS WW-12-061504 WW-11 WW-10 WW-10 WW-10MSD WW-10MSD WW-06 DUP WW-05 WW-05 WW-09 WW-09 WW-09 WW-01 DUP	SAMPLE ID ====================================	FILE ID CS040623B61 36668B61 3340 36671B61 3340 334001B61 334002B61 334004B61 37051B61 37052B61 334005B61 334005B61 334007B61 334007B61 334008B61 334008B61 33401B61	DATE ANALYZED ======== 06/23/04 06/23/04 06/23/04 06/23/04 06/24/04 06/24/04 06/24/04 06/24/04 06/24/04 06/24/04 06/24/04 06/24/04 06/24/04 06/24/04 06/24/04 06/24/04 06/24/04	TIME ANALYZED ====================================

FORM V VOA

FORM 5 VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK BROMOFLUOROBENZENE (BFB)

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 3340

Lab File ID: BG040624B61

BFB Injection Date: 06/24/04

Instrument ID: 5973HP61

BFB Injection Time: 2038

GC Column: EQUITY624 ID: 0.53 (mm)

Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	· % RI	ELATIVE
50		ABI	JNDANCE
75	15.0 - 40.0% of mass 95	16.6	****
95 96	base Peak 100% relation	47.3	
173	J. U1 magg uk	100.0	
174	Less than 2.0% of mass 174 Greater than 50.0% of mass 95	6.7 0.6	7
175	3.0 - 9.0% Of mage 174	91.4	(0.6)1
176 177	95.0 - 101.0% of mass 174	6.5	7.717
+//	5.0 - 9.0% of mass 176	92.0	(100.6)1
1	1-Value is % mass 174	6.0	(6.5)2
	2-Value is % mass	176	

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA	Y 3 D		,	- LUE BIANDAR
	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
02 03	VBLKBU VBULCS	VSTD050 37643 37646	CU040624B61 37643B61_3340 37646B61_3340	06/24/04 06/24/04 06/24/04	2131 2156
05 06 07	1477 0-	334013 334014	334013RB61 334014B61	06/24/04 06/24/04 06/24/04	2222 2312 2337
08 09 10					
12 13 14					
15 - 16 - 17 - 18 -					
.) 19 - 20 - 21 -					
page 1 of 1					

FORM V VOA

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 3340

Instrument ID: 5973HP61 Calibration Date: 06/23/04 Time: 1730

Init. Calib. Times: 2151

2352

GC Column: RTX-VMS ID: 0.18 (mm)

		RRF50		T		1	ł
COMPOUND	RRF OR	OR	MIN	%D OR	MAX &D OR	CITOTE	l
	AMOUNT	AMOUNT	RRF	*DRIFT	*DRIFT	TYPE	
表现的 10 mm 1					========		1
Dichlorodifluoromethane	0.2370000	0.2107755			!	AVRG	ĺ
Chloromethane	0.3520000	0.3160007	0.1			,	ĺ
Vinyl Chloride_	0.2720000	0.2572112	0.1	-5.44		AVRG	
Bromomethane	0.1550000	0.0759357	0.001	51 01			
Chloroethane	0.1520000	0.1385823	0.001		:	AVRG	<~
Trichlorofluoromethane	0.3680000	0.3706028	0.001	0.71		1	i
1,1-Dichloroethene	0.2250000	0.2216572	0.001	-1.48			
Carbon disulfide	0.6680000	0.6307753	0.001	-5.57			
1,1,2-trichloro-1,2,2-triflu	0.2580000	0.0507755	0.001				
Acetone	0.0600000	0 0388936	0.001	1.57			
Methylene Chloride	0.2720000	0.2352942	0.001	,		AVRG	< -
trans-1,2-Dichloroethene	0.2600000	0.2552642	0.001	-13.50	25.00		
Methyl-tert-butyl ether	0.6200000	0.2313072	0.001	-3.09		1	
1,1-Dichloroethane	0.4130000	0.5705013	0.001	-7.98			
cis-1,2-Dichloroethene	0.2690000	0.3506201	0.1	-3.92		AVRG	
2-butanone	0.2030000	0.2034811	0.001	-1.31			
Chloroform	0.0950000	0.0724404	0.001	~23.75			
1,1,1-Trichloroethane	0.3350000	0.4150821	0.001		20.00		
Carbon Tetrachloride	0.3020000	0.36/0285	0.001		25.00		
Benzene	0.3020000	0.3514001	0.001	16.36	25.00		
1,2-Dichloroethane	0.3190000	0.9488496	0.001	-3.38	25.00		
Trichloroethene	0.3130000	0.2694335	0.001	-15.54	25.00		
1,2-Dichloropropane	0.2840000	0.3149619	0.001	10.90	25.00		
Bromodichloromethane	0.3020000	0.2352829	0.001	-7.73	20.00		
cis-1,3-Dichloropropene	0.3740000	0.2758261	0.001	-8.67	25.00		
4-Methyl-2-pentanone	0.2250000	0.3703242	0.001	-0.98	25.00		
Toluene	0.6960000	0.1712828	0.001	-23.87	25.00		
trans-1,3-Dichloropropene	0.3870000	0.7188524	0.001	3.28	20.00		
1,1,2-Trichloroethane	0.38700001	0.3/43215	0.001	-3.28	25.00		
Tetrachloroethene	0.3040000	0.2/42341	0.001	-9.79	25.00		
2-hexanone	0.2160000	0.2614124	0.001	21.02	25.00		
Dibromochloromethane	0.1590000	0.1165401	0.001	-26.70	25.00		< -
1,2-Dibromoethane	0.3640000	0.3526157	0.001	-3.13	25.00		
Chlorobenzene	0.2600000	0.2690314		3.47	25.00		
Ethylbenzene	0.4640000	0.903/901	0.3	-0.13	25.00		
Styrene	0.9390000	0.4750779	0.001	2.50	20.00		
Bromoform	0.2400000	7.3436324		0.50	25.00		
Isopropyl Benzene	1.2270000	2600092	0.1	3.62	25.00		
1,1,2,2-Tetrachloroethane	0.6930000	5030506		11.64	25.00		
	1 2360000	33700576	0.3	-15.86	25.00		
	1.3160000 1	1.3//0953	0.001	4.64	25.00		
	1.4660000	1.4662817	0.001	0.02	25.00		
-/- STOUTOLODEILZEILE	1.3510000	1.3435378	0.001	-0.55	25.00	AVRG	
page 1 of 2	l_				i	i	
vage 1 Of 2	-					·············	

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY Case No.:

SAS No.: SDG No.: 3340

Instrument ID: 5973HP61 Calibration Date: 06/23/04 Time: 1730

Init. Calib. Times: 2151 2352

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF OR	RRF50 OR	MTM	25 65		T
	,		MIN	%D OR	MAX &D OR	CURV
	AMOUNT	AMOUNT	RRF	*DRIFT	*DRIFT	TYPE
		=======				===
1,2-Dibromo-3-Chloropropane_	0.1560000	0.1497496	0.001	-4.01	25.00	1
1,2,4-Trichlorobenzene	0.6970000	0.7460811	0.001	7.04		• •
Xylene (total)	0.5410000	0.5733605	0.001	5.98	,	
Methyl acetate	0.1340000	0.0891084	0.001	-33.50		
Cyclohexane	0.3050000	0.3421246	0.001	12.17		,
Methylcyclohexane	0.2850000	0.3516194	0.001	23.38		
Dibromofluoromethane	****				***=====	: !
 	0.2340000	0.2637324	0.001	12.71	25.00	AVRG
1,2-Dichloroethane-d4 Toluene-d8	0.2400000	0.2306717	0.001	-3.89		- 1
	0.8660000	1.0417527	0.001	20.29		
Bromofluorobenzene	0.6540000	0.7380504	0.001	12.85	25.00	
					į	

page 2 of 2

FORM VII VOA

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 3340

Instrument ID: 5973HP61 Calibration Date: 06/24/04 Time: 2131

Lab File ID: CU040624B61

Init. Calib. Date(s): 06/10/04 06/10/04

Init. Calib. Times: 2151 2352

GC Column: RTX-VMS ID: 0.18 (mm)

		RRF50	1	T	Τ΄		ı
COMPOUND	RRF OR	OR	MIN	&D OR	MAX &D OF	l Stanst	
	AMOUNT	AMOUNT	RRF	*DRIFT	*DRIFT	TYPE	•
						,	!
Dichlorodifluoromethane		0.2079915				AVRG	
Chloromethane		0.2958440		•	,	AVRG	
Vinyl Chloride		0.2646236				AVRG	
Bromomethane	0.1550000	0.1105466	0.001	-28.68		AVRG	ـ ـ ا
Chloroethane	0.1520000	0.1533002	0.001	0.86		AVRG	
Trichlorofluoromethane	0.3680000	0.3967536	0.001	7.81		AVRG	1
1,1-Dichloroethene	0.2250000	0.2373165	0.001	5.47		AVRG	
Carbon disulfide	0.6680000	0.6869564	in nort	2 04		AVRG	
1,1,2-trichloro-1,2,2-triflu	0.2580000	0.2790623	0.001	8.16		AVRG	
Acetone	0.0600000	0.0505150	0.001	-15.81		AVRG	
Methylene Chloride	0.2720000	0.2630181	0.001	-3.30		AVRG	
trans-1,2-Dichloroethene	0.2600000	0.2755897	0.001	6.00		AVRG	
Methyl-tert-butyl ether	0.6200000	0.6429075	0.001	3.69		AVRG	
1,1-Dichloroethane	0.4130000	0.4400547	0.1	. ,		AVRG	
cis-1,2-Dichloroethene	0.2690000	0.2927265	0.001	8.82		AVEC	
2-butanone	0.0950000	0.0878510	0.001	-7.52			
Chloroform	0.4300000	0.4616687	0.001	7.36	-2.50	AVRG	
1,1,1-Trichloroethane	0.3350000	0.3920188	0.001	17.02	25.00		
Carbon Tetrachloride	0.3020000	0.3656330	0.001	21.07	25.00		
Benzene	0.9820000	1.0655097	0.001	8.50	25.00		
1,2-Dichloroethane	0.3190000	0.3200972	0.001	0.34	25.00	, ,	
Trichloroethene_	0.2840000	0.3371853	0.001	18.73	25.00		
1,2-Dichloropropane	0.2550000	0.2630323	0.001	3.15	20.00		
Bromodichloromethane	0.3020000	0.3136225	0.001	3.85	25.00		
cis-1,3-Dichloropropene	0.3740000	0.4232156	0.001	13.16	25.00		
4-Methyl-2-pentanone	0.2250000	0.2069454	0.001	-8.02	25.00		
Toluene	0.6960000	0.7834438	0.001	12.56	20.00		
trans-1,3-Dichloropropene	0.3870000	0.4281875	0.001	10.64	25.00		
1,1,2-Trichloroethane	0.3040000	0.3118756	0.001	2.59	25.00		
Tetrachloroethene	0.2160000	0.2760123	0.001	27.78	25.00		< -
2-hexanone	0.1590000	0.1411080	0.001	-11.25	25.00		`
Dibromochloromethane	0.3640000	0.3955098	0.001	8.66	25.00		
1,2-Dibromoethane	0.2600000	0.3071503	0.001	18.13	25.00		
Chlorobenzene	0.9050000	0.9963552	0.3	10.09	25.00		
EthylbenzeneStyrene	0.4640000	0.5243568	0.001	13.01	20.00		
	0.9390000	1.0578094	:	12.65	25.00	AVRG	
i _	0.2400000	0.2799930	0.1	16.66	25.00	AVRG	
	1.2270000	1.4649786	0.001	19.40	25.00		
1,1,2,2-Tetrachloroethane	0.6930000	0.6772070	0.3	-2.28	25.00		
1,3-Dichlorobenzene	1.3160000	1.5260532	0.001	15.96	25.00		
1.4-Dichlorobenzene	1.4660000	1.6634851	0.001	13.47	25.00		
1,2-Dichlorobenzene	1.3510000	1.5177662	0.001	12.34	25.00		
page 1 of 2	,		i_				
rage I OI Z					,		

Lab Name: COMPUCHEM

Contract: 8260B

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: 3340

Instrument ID: 5973HP61

Calibration Date: 06/24/04

Time: 2131

Lab File ID: CU040624B61

Init. Calib. Date(s): 06/10/04

06/10/04

Init. Calib. Times: 2151

10.66

25.00 AVRG

2352

GC Column: RTX-VMS

Bromofluorobenzene

ID: 0.18 (mm)

RRF50 COMPOUND RRF OR OR MIN &D OR MAX &D OR CURV AMOUNT AMOUNT RRF &DRIFT *DRIFT TYPE **** *===== | ===== | ------**** 1,2-Dibromo-3-Chloropropane_ 0.1560000 0.1712973 0.001 25.00 AVRG 25.00 AVRG 9.80 1,2,4-Trichlorobenzene 0.6970000 0.7946301 0.001 14.01 Xylene (total) 0.5410000 0.6245311 0.001 15.44 25.00 AVRG Methyl acetate 0.1340000 0.1118348 0.001 -16.54 25.00 AVRG Cyclohexane 0.3050000|0.3608832|0.001| 18.32 25.00 AVRG 0.2850000 0.3646904 0.001 Methylcyclohexane 27.96 25.00 AVRG <-----0.2340000 | 0.2641382 | 0.001 | Dibromofluoromethane 12.88 25.00 AVRG 1,2-Dichloroethane-d4 0.2400000 0.2387123 0.001 -0.54 25.00 AVRG Toluene-d8 0.8660000 | 1.0231620 | 0.001 | 18.15 25.00 AVRG

0.6540000 | 0.7237237 | 0.001 |

page 2 of 2

FORM VII VOA



Peter Fairbanks

08/26/2004 01:35 PM

To: rraimonde@compuchemlabs.com

cc: TPace@PIRNIE.COM

Subject: Fort Story - Data Review Comments for VOCs by SW8260B

Rodney,

Please address the following data review questions and submit the requested information to the URS Corporation (Buffalo, NY Office) by September 2, 2004, so that the data review may be completed.

A. SDG No. 3340 (80th Division Reserve Site)

- 1. The chain-of-custody (COC) associated with samples collected on 06/16/04 indicates 2-40 ml VOA vials (trip blank) were received at the lab. Yet, no trip blank results were reported by the lab. Please clarify.
- 2. The case narrative incorrectly references the dates of sample receipt i.e., 06/16, 6/17, 06/18, and 06/21/04. The samples were actually received from 06/15-06/19/04. Please resubmit the case narrative and Form 1 for sample MW-07 with the correct dates of sample receipt.

A. SDG No. 3654 (LARC 60 Site)

1. The case narrative incorrectly references the date of sample receipt i.e., 07/27. The samples were actually received on 07/14/04. Please resubmit the case narrative with the correct date of sample receipt.

Peter R. Fairbanks Senior Chemist URS Corporation 640 Ellicott Street, 3rd Floor Buffalo, New York 14203 Tel: 716.856.5636, ext. 1121

Fax: 716.856.2545



"Rodney Raimonde" <rraimonde@compuch emlabs.com>

To: <Peter_Fairbanks@URSCorp.com>

CC:

Subject: RE: Fort Story - Data Review Comments for VOCs by SW8260B

09/02/2004 03:01 PM

Peter;

Below are the answers to the inquiry and your questions sent 8/26/04.

- A. SDG No. 3340 (80th Division Reserve Site)
- 1. The chain-of-custody (COC) associated with samples collected on 06/16/04 indicates 2-40 ml VOA vials (trip blank) were received at the lab. Yet, no trip blank results were reported by the lab. Please clarify.

The chain-of-custody noted that there were two 40ml vials received in the cooler that were not listed on the COC by the client for analysis. A check of the bottles revealed that the vials only had the CompuChem lab pure water trip blank label on them and nothing from the client. a message was left for the client regarding this issue. Since there was no request by the client for analysis of the trip blanks they were not analyzed.

2. The case narrative incorrectly references the dates of sample receipt i.e., 06/16, 6/17, 06/18, and 06/21/04. The samples were actually received from 06/15-06/19/04. Please resubmit the case narrative and Form 1 for sample MW-07 with the correct dates of sample receipt.

The samples were physically received at the laboratory on Saturday the 19th and the temperature of the containers was taken. The samples were not logged into the LMS system until Monday the 21st, therefore the internal log sheets have the receipt date of the 21st.

- A. SDG No. 3654 (LARC 60 Site)
- 1. The case narrative incorrectly references the date of sample receipt i.e., 07/27. The samples were actually received on 07/14/04. Please resubmit the case narrative with the correct date of sample receipt.

Attached is the corrected narrative.

Peter;

Please let me know if there is anything else that you need provided for this project.

Thank you;

Rodney A. Raimonde CompuChem 919-379-4018 919-379-4040 (fax) This email and any files transmitted with it are confidential and intended solely for the use of the individual or entity to whom they are addressed. If you have received this email in error please notify the system manager. This message contains confidential information and is intended only for the individual named. If you are not the named addressee you should not disseminate, distribute or copy this e-mail. Please notify the sender immediately by e-mail if you have received this e-mail by mistake and delete this e-mail from your system. If you are not the intended recipient you are notified that disclosing, copying, distributing or taking any action in reliance on the contents of this information is strictly prohibited.

